STATE OF CALIFORNIA — Pete Wilson, Governor

CALIFORNIA INTEGRATED WASTE MANAGEMENT BOARD
8800 Cal Center Drive
Sacramento, California 95826

Wednesday, February 9, 1994
10:00 a.m.
meeting of the

LOCAL ASSISTANCE AND PLANNING COMMITTEE

of the
CALIFORNIA INTEGRATED WASTE MANAGEMENT BOARD

8800 Cal Center Drive
Sacramento, CA 95826

AGENDA

Note: o Agenda items may be taken out of order.
o If written comments are submitted, please provide 20 two-sided copies.

Important Notice: The Board intends that Committee Meetings will constitute the time and place where the major discussion and deliberation of a listed matter will be initiated. After consideration by the Committee, matters requiring Board action will be placed on an upcoming Board Meeting Agenda. Discussion of matters on Board Meeting Agendas may be limited if the matters are placed on the Board's Consent Agenda by the Committee. Persons interested in commenting on an item being considered by a Board Committee or the full Board are advised to make comments at the Committee meeting where the matter is considered.

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5. CONSIDERATION OF PETITION FOR REDUCTION IN THE DIVERSION REQUIREMENTS FOR THE CITY OF WILLOWS, CITY OF ORLAND AND THE UNINCORPORATED COUNTY OF GLENN

6. CONSIDERATION OF ADOPTION OF IN-HOUSE WASTE PREVENTION ACTION PLAN (not available until closer to meeting date)

7. OPEN DISCUSSION

8. ADJOURNMENT

Notice: The Committee may hold a closed session to discuss the appointment or employment of public employees and litigation under authority of Government Code Sections 11126 (a) and (q), respectively.

For further information contact:
INTEGRATED WASTE MANAGEMENT BOARD
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Sacramento, CA 95826

Catherine Foreman
(916) 255-2156

California Integrated Waste Management Board

LOCAL ASSISTANCE AND PLANNING COMMITTEE
February 9, 1994

AGENDA ITEM # 1

ITEM: Consideration of Staff Recommendations on the Adequacy of the Placer County Source Reduction and Recycling Element

BACKGROUND:

Public Resources Code (PRC) 41791.5, as added by Assembly Bill 440, requires each city, county, and regional agency to submit its Source Reduction and Recycling Element (SRRE) and Nondisposal Facility Element (NDFE) to the Board for approval on or before April 30, 1994, August 31, 1994, or December 31, 1994, depending upon a jurisdiction's remaining solid waste disposal capacity.

According to PRC Sections 41800 and 41802, the Board is required to review and determine the adequacy of a SRRE within 120 days from the time it receives the final element. The Board must either approve or disapprove the element at a public hearing, according to PRC Sections 41800 (a), 41800(b), and 41802. If the Board does not act to approve or disapprove an element submitted for review within 120 days, the elements shall be deemed approved.

A final SRRE submitted to the Board for review must include the following documentation:

- Proof of notice of public hearings conducted to receive comment from the public as required by PRC Section 41793 and Title 14 of the California Code of Regulations (CCR) Section 18766;

- A resolution from the jurisdiction's governing body adopting the element as required by PRC Section 41000 and Title 14 CCR, Section 18784;

- Proof of compliance with the California Environmental Quality Act (CEQA);

- Written comments from the Local Task Force (LTF) as required by Title 14 CCR, Section 18765.

The Board has 30 days to determine if all documents have been submitted with the SRRE as required. If any of the documents are missing, then the Board must notify the County regarding the missing documentation.

If the Board disapproves the County's SRRE, the Board must issue a Notice of Deficiency (NOD) to the County as required by PRC 41810. The Board is required to notify the County within 30 days of that decision. In this case, the NOD must identify specific deficiencies in the element and make specific recommendations about how to correct those deficiencies. Within 120 days of receipt of an NOD, the County must correct the identified deficiencies, and readopt and resubmit the element to the Board, pursuant to PRC Section 41811.

If the SRRE submitted to the Board for final review by a County includes a 1990 base year claim for the diversion of any excluded waste type as specified in PRC Section 41781.2 (i.e., inerts, scrap metal, white goods, or agricultural waste), the Board must notify the County pursuant to PRC Section 41801.5 within 60 days from the start of the 120-day timeframe if the Board intends to exclude these waste types from the County's claim. The Board may adjust the County's base year diversion claim if there is insufficient documentation to substantiate the claim.

At its November 17, 1993 the Board adopted the CIWMP Enforcement Policy that contains the criteria for determining element or plan adequacy. A SRRE must contain the nine components: A Solid Waste Generation Study; and Source Reduction, Recycling, Composting, Special Waste, Disposal Capacity, Funding, Public Information and Education, and Integration Components.

With the exception of the Disposal Capacity, Funding, and Integration Components, the components must include an evaluation and selection of program alternatives. The Disposal Capacity Component must adequately address the disposal capacity of the jurisdiction; the Funding Component must identify adequate funding sources for implementing selected programs; and the Integration Component must describe how the programs achieve the 25% and 50% mandate and include a master implementation schedule.

ANALYSIS:

Placer County is required to submit its SRRE and NDFE to the Board on or before August 31, 1994. Placer County submitted its final SRRE for the unincorporated portion of the County on November 1, 1993. It is the second county in the state to submit a SRRE for Board review under the provisions of AB 440. The SRRE describes the County's plan to achieve the solid waste disposal reduction mandates of 25% by 1995 and 50% by the year 2000. Placer County projects it will reduce disposal by 26.6% by 1995 and by 60.4% by 2000.

The 120-day review period allowed for Board review and action on Placer County's SRRE expires February 28, 1994.

Board staff determined that all of the required supporting documentation was provided with the SRRE when submitted by Placer County.

Placer County is claiming diversion for excluded waste types, scrap metals and white goods, and its base year diversion has been adjusted from 8.9% to 6.1%. Commensurately, the diversion projections for 1995 and 2000 have been adjusted to 26.1% and 60.2%, respectively.

Staff reviewed the Placer County SRRE using the criteria in the CIWMP Enforcement Policy for determining element adequacy; staff comments on the preliminary draft; and the applicable statutes and regulations.

Staff determined that the SRRE satisfies the criteria contained in the CIWMP Enforcement Policy. The Final SRRE also adequately addresses Board staff's comments on the 1992 preliminary draft Placer County SRRE. The Placer County SRRE also meets the requirements of applicable statutes and regulations.

Placer County has implemented many diversion programs. The County is demonstrating a strong commitment to comply with AB 939 through the planning and implementation of these programs, activities, and facilities as described in the SRRE.

Placer County plans to achieve the 25% and 50% reduction in disposal by the following programs:

▸	Source reduction	1995	5%	2000	7%
	Waste audits, business workshops, public awareness, procurement policies, backyard composting;				
▸	Recycling	1995	21.7%	2000	31%
	Curbside, bar and restaurant, office paper, OCC collection, and a MRF;				
▸	Composting	1995	0%	2000	10%
	Composting of yard and wood waste, and mulching of other organic materials;				
▸	Transformation	1995	0%	2000	10%
	Totals		26.1%		60.2%

STAFF COMMENTS:

Existing statute requires the Board to determine whether an element or plan complies with the pertinent provisions of the PRC, CCR, and Board policies; and to approve or disapprove the documents based on that determination. If a document contains all of the minimum requirements, and staff make a determination that the document is adequate, approval is recommended. Based on the information submitted, Board staff offers the following Findings and Recommendation.

Findings:

1. The Final SRRE for Unincorporated Placer County met the requirements for a complete submission by providing all supporting documentation for the SRRE.

2. The Final SRRE has complied with the California Environmental Quality Act.

3. The Final SRRE for Unincorporated Placer County meets all statutory and regulatory requirements.

4. The Final SRRE for Unincorporated Placer County meets the requirements for SRRE component content as established in the Board's CIWMP Enforcement Policy.

5. The Final SRRE for Unincorporated Placer County adequately addressed staff's comments on the County's preliminary draft SRRE.

6. The Final SRRE for Unincorporated Placer County projected diversion is 26.1% for 1995 and 60.2% for 2000 (adjusted diversion percentages due to excluded waste types).

Recommendation:

Staff recommends approval of the SRRE for the unincorporated area of Placer County.

ATTACHMENTS:

1. Staff analysis of the Solid Waste Generation Study for Unincorporated Placer County
2. Resolution of Approval for the SRRE for Unincorporated Placer County

Prepared by: Catherine Donahue CD Phone: 255-2315

Reviewed by: John Nuffer J.N. for Phone: 255-2368

Reviewed by: Lorraine Van Kekerix LVK for Phone: 255-2670

Reviewed by: Judith Friedman JF Phone: 255-2302

Reviewed by: Dorothy Rice D. Rice Phone: 255-2206

Legal Review: EB Date/time: 1/28/94 9:35 a.m.

REVIEW COMMENTS FOR THE UNINCORPORATED PLACER COUNTY SOLID WASTE GENERATION STUDY (SWGS)

Board staff has reviewed the Solid Waste Generation Study (SWGS) portion of the Unincorporated Placer County Source Reduction and Recycling Element (SRRE), dated October 1992. This review was conducted to determine conformance of the SWGS with Article 6.1, Title 14, California Code of Regulations (14 CCR), and with Part 2, Division 30 of the Public Resources Code (PRC).

Staff has also reviewed the appropriate documentation to determine whether the jurisdiction has complied with the California Environmental Quality Act (CEQA) (PRC Sections 21000 et seq), as required by 14 CCR Section 18768.

Board staff finds the following:

1) **Base-year Waste Generation Measurement [14 CCR Section 18722 (g) and (i); PRC Section 40901]**

These sections require each jurisdiction in California to quantify the amount of solid waste generated in their jurisdiction during the base-year, and include these amounts in their initial SWGS. The quantity of solid waste generated is equal to the sum of the solid waste disposed of, plus the solid waste diverted by the jurisdiction. PRC Sections 41031 and 41331 indicate that quantification of base-year solid waste generation will enable the Board to determine the disposal reduction a jurisdiction must achieve to comply with the diversion mandates in PRC Section 41780.

Staff has determined that Placer County has complied with the requirements of these sections.

2) **Representative Sampling and Seasonal Variation [14 CCR Section 18722 (h) and (i); and PRC Sections 41030 and 41330]**

These sections require a jurisdiction's waste generation information be representative of the solid waste generated within and disposed of by the jurisdiction, and reflect seasonal variation.

Staff has determined that Placer County has complied with the requirements of these sections.

3) **Sampling Methods [14 CCR Section 18722 (1)]**

This section requires a jurisdiction to use one or more specified sampling methods to characterize its waste generation. A discussion of which of these methods the jurisdiction used to characterize its waste is necessary for Board staff to determine

whether the data resulting from the sampling is representative of the jurisdiction.

Staff has determined that Placer County has complied with the requirements of this section.

4) Accuracy of Data (PRC Sections 41031 and 41331)

These sections require SWGS data to be as accurate as possible, to enable the Board to determine whether the jurisdiction has achieved the diversion mandates of PRC Section 41780.

Staff has determined that Placer County has complied with the requirements of these sections.

5) Comparable Data [PRC Sections 41030 (b) and 41330 (b); 14 CCR Sections 18722 (l) and 18724]

These sections allow a jurisdiction to use comparable data to characterize the composition of their base-year waste generation. If comparable data are used, then the jurisdiction must demonstrate how the jurisdictions were comparable. This demonstration must be based on similar waste generation factors such as demographics and economics, or solid waste characteristics.

Staff has determined that Placer County has complied with the requirements of these sections.

6) Normally Disposed of [PRC Section 41781; 14 CCR Section 18720 (44)]

These sections required a jurisdiction to demonstrate in the SWGS that each specific waste type claimed for diversion was normally disposed in a permitted disposal facility used by the jurisdiction. The disposal amount of a waste type claimed for diversion shall be at least .001% of the jurisdiction's total disposed waste stream. Solid waste does not include hazardous waste.

Staff has determined that Placer County has complied with the requirements of these sections.

7) Base-year Disposal, Diversion and Generation Claims [14 CCR Section 18722 (i)]

This section requires a jurisdiction to identify all significant sources of solid waste generated by a jurisdiction, identify all diversion activities and facilities, and identify all permitted solid waste transformation and disposal facilities used by the jurisdiction. A jurisdiction shall substantiate its base-year diversion claim by identifying the diversion activity/facility responsible for the diversion.

Staff has determined that Placer County has complied with the requirements of this section.

8) Base-year Diversion Claims for Specific Waste Types (PRC Section 41781.2)

This section requires a jurisdiction claiming base-year diversion of agricultural wastes, inert solids, scrap metals or white goods in its base-year solid waste generation amounts to submit documentation to the Board indicating that the three criteria listed in part (c) of the same section have been met. This documentation is required to show (1) a specific local action resulted in the diversion; (2) the historical disposal amounts for each restricted waste type claimed as diverted are not less than the claimed diversion amounts; and (3) the diversion programs selected in the jurisdiction's SRRE are, or will be, implemented by the local jurisdiction. Documentation shall be specific to the specific waste type claimed for base-year diversion.

Table II-19, of Placer's final SWGS shows 575.1 tons of scrap metals and 102.2 tons of white goods as diverted from disposal.

Staff notified the County of Placer, pursuant to PRC Section 41801.5, that documentation was needed to substantiate the base-year diversion claims for scrap metals and white goods. In order to obtain base-year diversion credit for scrap metal and white goods, the County of Placer must submit additional information to substantiate these diversion claims before Board staff can recommend to the Board that the County has met the requirements of this section. However, the County of Placer will achieve the diversion mandates of PRC Section 41780 without including diversion of scrap metals and white goods.

If Staff uses the figures in Table II-19, as the base-year figures, Staff would recommend that the Board adjust the 1990 base-year diversion rate to 8.3%. This would reduce the projected 1995 diversion rate from 26.6% to 26.2%.

9) California Environmental Quality Act (CEQA) Compliance (PRC Sections 21000 et seq, and 14 CCR Section 18768)

Board staff has determined that Placer County has met all requirements of CEQA for the SRRE.

Analysis by: Tracy Woods (255-2662)
Date: December 29, 1993

ATTACHMENT # 2

CALIFORNIA INTEGRATED WASTE MANAGEMENT BOARD
RESOLUTION # 94-35

FOR CONSIDERATION OF APPROVAL OF THE SOURCE REDUCTION AND RECYCLING ELEMENT FOR THE UNINCORPORATED AREA OF PLACER COUNTY

WHEREAS, Public Resources Code (PRC) Sections 40900 et seq. describe the requirements to be met by cities and counties when developing and implementing integrated waste management plans; and

WHEREAS, PRC Section 41300 requires that each county shall prepare and adopt a SRRE which includes all of the components specified; and

WHEREAS, California Code of Regulations Title 14, Section 18767 requires that jurisdictions ensure their SRRE has complied with the California Environmental Quality Act and provides a Notice of Determination from the State Clearinghouse as required; and

WHEREAS, PRC Section 41001 requires that the County's SRRE include a program for the management of solid waste generated within the County, consistent with the waste management hierarchy provided in PRC Section 40051; and

WHEREAS, the County's SRRE shall place emphasis on implementation of all feasible source reduction, recycling, and composting programs while identifying the amount of landfill and transformation capacity that will be needed for solid waste which cannot be reduced at the source, recycled, or composted; and

WHEREAS, PRC Section 41780 and its implementing regulations require that the SRRE show how the County will achieve the diversion goals of 25% by 1995, and 50% by 2000; and

WHEREAS, based on review of the County's SRRE, Board staff found that all of the foregoing requirements have been satisfied and the SRRE substantially complies with PRC Section 41000, et seq. and recommends approval; and

NOW, THEREFORE, BE IT RESOLVED that the Board hereby approves the Source Reduction and Recycling Elements for the unincorporated area of Placer County.

CERTIFICATION

The undersigned Executive Director of the California Integrated Waste Management Board does hereby certify that the foregoing is a full, true and correct copy of a resolution duly and regularly adopted at a meeting of the California Integrated Waste Management Board held on February 23-24, 1994.

Dated:

Ralph E. Chandler
Executive Director

CALIFORNIA INTEGRATED WASTE MANAGEMENT BOARD

Local Assistance and Planning Committee
February 9, 1994

AGENDA ITEM # 2

ITEM: Consideration of Petition for Reduction in the Diversion Requirements for the City of Farmersville.

BACKGROUND:

Public Resources Code (PRC) Section 41780 requires that each city and county divert 25 percent of its waste from landfills by 1995 and 50 percent by the year 2000. Source Reduction and Recycling Elements (SRRE) are prepared by the cities and counties as a planning guide for meeting the diversion mandates (PRC Section 41000 and 41300). The SRREs describe the programs which the jurisdictions will use to achieve 25 percent and 50 percent diversion. PRC Section 41782 allows the California Integrated Waste Management Board (Board) to grant reductions in planning and diversion requirements. Section 18775 of Title 14 of the California Code of Regulations (14 CCR), identifies the qualifications that a jurisdiction must meet to petition the Board for a reduction in the requirements.

An incorporated city must have specific characteristics in order to petition for a reduction. The required characteristics are:

1. a geographic area of less than 3 square miles;
   or
   a population density of less than 1500 people per square mile; and

2. a waste generation rate of less than 100 cubic yards per day or 60 tons per day.

Requested Reductions

The City of Farmersville is requesting a reduction of the 1995 diversion requirements to 12 percent.

ANALYSIS:

City Characteristics

The City of Farmersville is located in Tulare County, in the southeast portion of the San Joaquin Valley. This area is predominantly flat, but is bounded on the east by the foothills of the Sierra Nevada mountains. The City is adjacent to the rural, unincorporated area of Tulare County and the City of Exeter. Farmersville is primarily a residential community with no major commercial facilities. The major employer in the City is the local school district. A small tortilla factory and a

cabinet/door contractor-supplier are the other main employers within the City. The City of Farmersville has a median household income of $17,029 and a population of 6,750.

The City of Farmersville meets the criteria to petition the Board for reduced diversion and/or planning requirements. The City of Farmersville has an area of 1.7 square miles, and a waste generation rate of 18.4 tons per day.

Solid Waste Collection and Disposal

There are no permitted solid waste disposal facilities in the City. Most of the solid waste generated in the City is disposed of at the Woodville Disposal Site, 12 miles south of the City.

Western Waste Industries has an exclusive franchise contract with the City of Farmersville, through March 2, 1997, for the collection of solid waste generated in the City. Subscription to Western Waste Industries service is mandatory and all residential and commercial customers are billed for the service by the City.

Current Diversion Programs

Currently 170 tons per year, or 2.5 percent of the City's waste, is diverted from disposal through source reduction and recycling. Most of the current diversion is the result of the citizens of Farmersville using other jurisdictions' programs.

The following table summarizes the diversion activities and quantities diverted in 1990.

Diversion by Material Type
Tons per Year

Material	Total	Diversion	Residential	Non Residential
OCC/Kraft	31	0.46%	0	31
PET	4	0.06%	4	0
CRV Glass	30	0.45%	30	0
Other Glass	10	0.15%	10	0
Aluminum Cans	47	0.70%	47	0
Other Aluminum	8	0.12%	0	8
Steel Cans	30	0.45%	0	30
Rubber/Tires	10	0.15%	0	10
Totals	**170**	**2.5%**	**91**	**79**

Existing Diversion Programs

- California Certified Redemption Centers.
- City sponsored tire removal every other year.
- Landfill salvage program (recovered from self-haul loads).
- Reduced tipping fee for clean loads of yard waste.

The initial Solid Waste Generation Study identified 171 tons of waste material as diverted by these and other programs in 1990; this represents 2.5 percent of the waste generated in the City. This includes 1 ton per year of inert solids, which have been excluded from the base year waste diversion levels as specified in PRC 41781.2. The exclusion of this 1 ton does not significantly affect the base year diversion rate of 2.5 percent for the City.

Proposed Diversion

The City plans on maintaining existing diversion programs. In addition, the City plans on implementing new programs to increase diversion levels to 12 percent. The following programs will be targeted by the City:

- Pursue the development of a source separated yard waste collection and processing program. The yard waste collection program was identified in and selected from the original preliminary draft SRRE. The City of Farmersville found this program to be the most effective in diverting large amounts of waste while keeping the fiscal realities facing the City in mind.
- Promote public education programs associated with the yard waste program.
- Develop a newspaper collection and drop off program with the local schools.
- Promote the use of the CA Certified Redemption Center that serves the City through mailers distributed with utility bills.
- Utilize the materials from the media kits provided by the CIWMB, to the extent practical.
- As new markets for materials become available through the Recycling Market Development Zone, the City will investigate the feasibility of diverting materials to such facilities.

- The City is also continuing to monitor purchasing decisions to encourage the purchase of materials and products that are recycled, that have minimal packaging, are supplied in bulk, and are reusable, recyclable and divertable.

Proposed Planning and Diversion Reductions

Reduction in the diversion requirements:

The City of Farmersville requests that the diversion level required for the short-term planning period (1991-1995) be reduced from 25 percent to 12 percent.

The City is requesting these reductions for the following reasons:

a) The cost of implementing additional diversion programs will be a significant hardship for the City due to the lack of funding associated with the small size and waste generation of the City (see table summarizing the current Solid Waste budget for the City).

b) The City does not have the staff to pursue extensive diversion programs. The City Manager is solely responsible for the City's solid waste activities.

c) The City of Farmersville is primarily a residential community, and has a lack of commercial and industrial enterprises that could provide waste streams that are easily and economically targeted for diversion programs.

Funding

The Solid Waste Budget for the City of Farmersville is funded through monthly billings for service on residential and commercial solid waste collection accounts, as well as a 5 percent franchise fee. This raises $280,550 annually, which is used each year to fund the solid waste budget (see table below).

A reserve of $16,000 and a fund balance of $3,950 for Fiscal Year 1993/94 exists for the City of Farmersville. These reserve funds are designated for future City expenses and AB 939 Program implementation. However, proposed increases in landfill tipping fees may deplete this reserve rather than allow it to be used for program implementation.

The proposed yard waste diversion program is anticipated to cost between $4.00 and $5.00 per household per month. The City estimates that diversion programs to meet the full 25 percent diversion goal would add an additional $115,000 to annual operating costs.

City of Farmersville - Solid Waste Budget
Fiscal Year 1993-94

Revenue	**$280,550**
Refuse User Fees	280,200
Investment Earnings	350
Expenses	**$276,600**
Salary and Benefits	17,000
Department Expense	3,000
Office Supplies	400
Training and Meetings	200
Contract Services: Western Waste Industries	252,000
Insurance	2,500
Computer Expenses	1,500
Reserves (approximate)	**$16,000**

Staff Analysis

City Staff

Responsibility for administering the solid waste activities and waste management programs within the City of Farmersville is placed solely upon the City Manager. The tasks of bookkeeping for billing and collection, delivery and pickup of waste cans for new and departing residents, and administration and supervision of franchise contract services are provided by the appropriate city staff. Duties of the City Manager are summarized below.

City of Farmersville-City Manager

- Responsible for administration of all City departments.
- Acts as a liaison between City Council and department heads.
- Responsible for carrying out City Council directives for all programs, projects, and activities.
- Serves as personnel, purchasing and recreation director.
- Serves as the Executive Director for the City's Redevelopment Agency.
- Responsible for the Integrated Waste Management Act of 1989 Compliance activities.

The City of Farmersville believes, based on their low population and volume of solid waste, limited funding and staff, and lack of local markets for recyclables that they will be able to reach an alternative diversion goal of 12 percent for the short term period.

Board staff believe that the request for a reduction of the short-term goal to 12 percent is a reasonable request considering the demographic and economic characteristics of the City of Farmersville.

Conclusion

The City of Farmersville qualifies, under the conditions of PRC Section 41782 and 14 CCR Section 18775, to petition for a reduction in the diversion requirements. 14 CCR Section 18775 requires the petitioning jurisdiction to provide the following information in its petition:

1. A general description of existing disposal and diversion systems, including documentation of the types and quantities of waste disposed and diverted;

2. Identification of the specific reductions being requested (i.e., planning and/or diversion requirements);

3. Documentation of why attainment of diversion and planning requirements is not feasible; and

4. The planning and diversion requirements that are achievable, and why.

Board staff have reviewed the petition from Farmersville and found that it complies with these requirements. Based on the information provided in the petition, Board staff believe that the diversion reduction requested by Farmersville is justified.

Board staff have worked with the consultant for the City of Farmersville in the preparation of the petition. The current and proposed programs outlined in the City's preliminary draft SRRE and petition demonstrate the City's commitment to meeting the intent of the Integrated Waste Management Act of 1989. The City of Farmersville has asked for the reduction based on limited staffing and a lack of funds for implementing diversion programs. The City has sufficiently demonstrated both of these conditions.

STAFF COMMENTS:

Board staff recommend that the Committee consider the City of Farmersville's petition for reduction in the diversion requirements to 12 percent.

ATTACHMENTS

1. Copy of 14 CCR Section 18775
2. City of Farmersville reduction petition
3. Board Resolution # 94-

Prepared by: Trevor M. Anderson **Phone** (916) 255-2309

Reviewed by: Toni Galloway **Phone** (916) 255-2653

Reviewed by: Judith J. Friedman **Phone** (916) 255-2555

Reviewed by: Dorothy Rice **Phone** (916) 255-2206

Legal Review: EB **Date/Time** 1/28/94 9:45a.m.

CALIFORNIA INTEGRATED WASTE MANAGEMENT BOARD
RESOLUTION # 94-36

FOR THE REDUCTION OF DIVERSION
REQUIREMENTS FOR THE CITY OF FARMERSVILLE

Title 14, Division 7, Chapter 9, Section 18775

WHEREAS, Public Resources Code Section 41782 allows reductions in the diversion and planning requirements specified in Public Resources Code Section 41780, if a city or county can demonstrate that achievement of the mandated requirements is not feasible due to geographical size or low population density, and small waste generation rates; and

WHEREAS, Title 14 of the California Code of Regulations, Section 18775 allows for qualifying jurisdictions to petition the Board for reductions in planning and diversion goals mandated by Public Resources Code Section 41780; and

WHEREAS, the Board has received a petition for reductions in the diversion requirements from the City of Farmersville; and

WHEREAS, the City of Farmersville qualifies based on geographic size, population density, and small waste generation rates to petition the Board for specified reductions; and

WHEREAS, the Board has found that the request for reduction in diversion requirements to allow the City of Farmersville to achieve a 12 percent level of waste diversion by January 1, 1995 is reasonable; and

WHEREAS, the City has complied with Public Resources Code Section 41782, and Title 14 of the California Code of Regulations, Section 18775; and

WHEREAS, the Integrated Waste Management Local Assistance and Planning Committee approved the staff recommendation to allow the City of Farmersville to reduce the short term diversion goals from 25 percent to 12 percent;

NOW, THEREFORE, BE IT RESOLVED that the Board hereby grants the reduction in diversion requirements for the City of Farmersville to 12 percent for January 1, 1995.

BE IT FURTHER RESOLVED, that if the City SRRE has not been locally adopted and submitted to the Board by the deadline set in statute; or, if the City SRRE is not approved by the Board pursuant to the provisions of Chapter 7, Part 2, of Division 30 of the Public Resources Code (commencing with Section 41800), then the diversion reductions granted above shall be deemed revoked.

CERTIFICATION

The undersigned Executive Director of the California Integrated Waste Management Board does hereby certify that the foregoing is a full, true and correct copy of a resolution duly and regularly adopted by the California Integrated Waste Management Board on February 23, 1994.

Dated:

Ralph E. Chandler
Executive Director

Section 18775. Reduction in Diversion and Planning Requirements.

(a) A city or county may petition the Board, at a public hearing, to reduce the diversion requirements specified in Public Resources Code section 41780, and planning requirements. To petition for a reduction, the city or county shall present verification to the Board which indicates that achievement of the requirements is not feasible due to small geographic size or low population density of the city or county and the small quantity of waste it generates. To qualify to petition for a reduction in the diversion and planning requirements, a city or county must meet the following :

(1) For an incorporated city, a geographic area of less than 3 square miles or a population density of less than 1500 people per square mile and a waste generation rate of less than 100 cubic yards per day or 60 tons per day.

(2) For the unincorporated area of a county, a geographic area of less than 1500 square miles or a population density of less than 10 people per square mile and a waste generation rate of less than 100 cubic yards per day or 60 tons per day.

b) Based on information presented at the hearing, the Board may establish reduced diversion requirements, and alternative, but less comprehensive, planning requirements. A petitioner may identify those specific planning requirements from which it wants to be relieved and provide justification for the reduction. Examples of reduced planning requirements could include, but would not be limited to, reduced requirements for solid waste generation studies, and reduced requirements and consolidation of specific component requirements. These reduced planning requirements, if granted, must ensure compliance with Public Resources Code section 41782.

(c) Cities and counties requesting a reduction in the diversion and planning requirements must include the following information in the reduction petition:

(1) A general description of the existing disposal and diversion systems, including documentation of the types and quantities of waste disposed and diverted. Documentation sources may include, but are not limited to, the following:

(A) Solid Waste Generation or Characterization Studies;

(B) Diversion data from public and private recycling operations;

(C) Current year waste loading information from permitted solid waste facilities used by the jurisdiction;

(2) Identification of the specific reductions being requested (i.e. diversion or planning requirements or both);

(3) Documentation of why attainment of mandated diversion and planning requirements is not feasible. Examples of documentation could include, but are not limited to:

(A) Evidence from the documentation sources specified in paragraph (c)(1) of this section;

(B) Verification of existing solid waste budget revenues and expenses from the duly authorized designated representative of the city or county;

(4) The planning or diversion requirements that the city or county feels are achievable, and why.

(d) Cities and counties which petition the Board and receive a reduction in the diversion and planning requirements pursuant to this section, shall fully address the following issues in an annual report submitted to the Board within 90 days of the anniversary date the reduction was originally granted, and each year thereafter until the Board-mandated diversion levels are met:

(1) the city or county's current activities to establish and maintain source reduction and recycling programs;

(2) changes in demographics in the city or county;

(3) changes in types and amounts of waste generated in the city or county;

(4) changes in funding sources for implementing the Elements or Plan;

(5) changes in markets for the city or county's recyclables.

(e) The Board may, upon review of the annual report, find that a revision or revocation of the reduction is necessary. The Board shall present any such findings at a public hearing.

(f) If a regional agency is named in a regional agreement as the responsible entity for the achievement of the diversion requirements specified in PRC section 41780, neither the regional agency nor any member of the regional agency will be eligible for a reduction in the diversion requirements of PRC section 41780.

NOTE: Authority cited: Section 40502, Public Resources Code. Reference: Section 41782, 41783 through 41786 and 41802, 40973 Public Resources Code.

A Petition to the California Integrated Waste Management Board

For a Reduction in the Diversion and Planning Requirements Mandated by AB 939

Submitted By:

The City of Farmersville, California

147 E. Front Street
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October 1993
Revised January 1994

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1.0 SUMMARY

The City of Farmersville is committed to cooperating with the State to achieve the intentions of AB 939. However, because of the fiscal impacts of other State-mandated programs, the small population base of the City, limited City staff and financial resources, and limited commercial and industrial businesses with corresponding significant waste volumes, the City of Farmersville will not be able to feasibly achieve a 25% diversion rate by 1995. As an alternative, the City proposes to implement targeted programs that it believes to be feasible and effective in producing a 12% diversion rate by 1995.

The City of Farmersville hereby petitions the California Integrated Waste Management Board and requests that the Board consider the conditions facing the City and approve its petition for an alternative diversion program.

2.0 ELIGIBILITY TO PETITION THE BOARD

The City of Farmersville meets the criteria established by the CIWMB regulations for filing this petition:

Geographic Area[1]	1.7 square miles
Waste Generation Rate (1990)[2]	18.4 tons/day (31 cubic yards)

Sources: [1] Steven Thompson, City Manager, City of Farmersville.
[2] Source Reduction and Recycling Element, City of Farmersville, May 1992.

3.0 TYPE OF PETITION

3.1 Short-Term Planning Period

The City of Farmersville requests that the diversion level for the short term planning period (1991 - 1995) be reduced from 25% to 12% because it cannot feasibly meet the diversion requirements in an efficient and cost effective manner. The existing diversion rate in the City is only 2.5%. The cost to implement the programs necessary to achieve an additional 22.5% diversion by 1995 would impose a severe economic burden on the residents and businesses of the City.

3.2 Medium-Term Planning Period

The City also does not believe that is can feasibly meet the medium-term (1996-2000) diversion requirement of 50% in an efficient and cost effective manner and intends to petition the CIWMB prior to the year 2000 for a reduction in its medium-term diversion requirements.

4.0 EXISTING CONDITIONS

4.1 Geographic Setting and Physical Characteristics

The City of Farmersville is located in Tulare County, in the southeast portion of the San Joaquin Valley. This area is predominantly flat, but is bounded on the east by the foothills of the Sierra Nevada mountain chain. The City of Farmersville is 1.7 square miles in area and is surrounded by the rural, unincorporated area of Tulare County, and the City of Exeter to the east.

4.2 Population and Housing

The 1993 population of the City of Farmersville is estimated at 6,750 persons (California Department of Finance Report 93 E-1, *Population Estimates for California Cities and Counties, Official State Estimates*, May 1993). The housing units in the City of Farmersville include 1,424 single-family units, 195 multi-family units, 86 mobile homes, and 27 other residential units (State Census Data Center, *1990 Census of Population and Housing, Summary Tape File 1, Complete Tables*).

4.3 Economy

The City of Farmersville is primarily a residential community with no major commercial facilities. Commercial strips along the two main thoroughfares in the City provide some services to local residents. The major employer in the City is the local school district. Other employers include a small tortilla factory and a cabinet/door contractor-supplier. There are 87 "commercial" waste collection accounts in the City. A significant number of agricultural workers reside in the City. The median income is very low due to the number of unskilled or semi-skilled workers residing in the City. The median household income in 1989 was $17,029 (U.S. Census of 1990).

4.4 Solid Waste Generation and Management

Solid Waste Generation

An Initial Solid Waste Generation Study was completed for the City pursuant to Article 6.1 of the Planning Guidelines issued by the CIWMB. The results of the study are summarized in Table 1.

Table 1

SOLID WASTE GENERATION[1]
(Tons/Year - 1990)

Source	Disposed	Diverted	Incinerated	Generated
Residential	2,820	91	0	2,911
Commercial	1,440	79[2]	151[2]	1,670
Industrial	480	0	0	480
Self-Haul	1,670	0	0	1,670
Total	6,410	170	151	6,731

[1] Solid Waste Generation data has been modified to exclude inert solids diverted through an asphalt recycling program pursuant to AB 2494.

[2] Represents all non-residential diversion or incineration including industrial and self-haul.

Source: Source Reduction and Recycling Element, City of Farmersville, May 1992.

The Initial Solid Waste Generation Study prepared for the City was part of a joint-regional study conducted for all jurisdictions in Tulare County. The waste disposal characterization study was performed using a quantitative field methodology. Waste disposal quantities were obtained through County disposal records and quantity records from Western Waste Industries, the City's contract waste hauler. Residential and commercial loads for the region were sampled and sorted to determine the composition of wastes disposed of. Industrial/roll-off loads and self-haul loads for the region were visually surveyed to determine the composition of wastes disposed of. Waste diversion quantities were determined using jurisdiction-specific data from various diversion programs and recycling facilities.

Disposal Sites

There are no permitted solid waste disposal facilities or sites in the City of Farmersville. The Woodville Disposal Site, located approximately 12 miles south of the City in the unincorporated

area of Tulare County, serves as the primary disposal site for waste generated within the City. The landfill is owned and operated by Tulare County.

Collection Services

Western Waste Industries has an exclusive franchise contract through March 2, 1997 with the City of Farmersville for the collection of solid waste disposed of in the City. Subscription to Western Waste Industries service is mandatory and all residential and commercial-can customers are billed for the service by the City. Western Waste Industries bills and collects for all other commercial waste collection accounts. Collection services provided by Western Waste Industries are automated and all residential and some commercial customers are provided with 90-gallon automatic containers. Other commercial customers use one-, two-, three-, and six-yard bins.

Current Diversion Activities

The Initial Solid Waste Generation Study identified waste diversion quantities by collecting jurisdiction-specific diversion data from various diversion programs and recycling facilities. Diversion programs identified include the following:

- California Certified Redemption Centers buy-back programs which collect PET California redemption value (CRV) containers, glass CRV and other glass food and beverage containers, and aluminum cans.
- City sponsored tire removal program every other year; tires are removed from City right-of-way and are recycled.
- A Landfill salvage program at the Woodville Disposal Site which recovers other aluminum metals, other ferrous metals, and white goods from self-haul loads for recycling.
- A reduced tipping fee is charged at the Woodville Disposal Site for disposal of clean loads of yard and wood waste. These materials are processed and used as fuel for biomass or cogeneration plants.
- Inert solids are diverted through an asphalt salvage program prior to reaching a disposal site.

The Initial Solid Waste Generation Study identified 171 tons of waste materials that were diverted by these programs in 1990; this represents 2.5% of the waste generated in the City. Table 2 presents a summary of the diversion activity by material type. Another 140 tons of yard waste and 11 tons of tires were diverted to transformation facilities in 1990.

Table 2

DIVERSION BY MATERIAL TYPE
(Tons/Year - 1990)

Material	Residential	Non-Residential
OCC/Kraft	0	31
PET	4	0
CRV Glass	30	0
Other Glass	10	0
Aluminum Cans	47	0
Other Aluminum	0	8
Steel Food & Bev. Cans	0	30
Rubber/Tires	0	10
Inert Solids	0	1
Total	91	80

Source: Source Reduction and Recycling Element, City of Farmersville, May 1992.

Assembly bill 2494 (Sher), *Statutes of 1992*, changed the method by which compliance with the diversion requirements is determined from a generation based method to a disposal based method. Assembly bill 2494 also specifies that for the purposes of determining the base amount of solid waste from which the diversion requirements are calculated, "solid waste" does not include the diversion of agricultural wastes, inert solids, white goods, and scrap metals unless all three of the following criteria are met:

> "(1) The city, county or regional agency demonstrates that the material was diverted from a permitted disposal facility through an action by the city, county, or regional agency which specifically resulted in the diversion.
>
> (2) The city, county, or regional agency demonstrates that, prior to January 1, 1990, the solid waste which is claimed to have been diverted was disposed of at a permitted disposal facility in the quantity being claimed as diversion.
>
> (3) The city, county, or regional agency is implementing, and will continue to implement, source reduction, recycling, and composting programs, as described in its source reduction and recycling element".

Based on the provisions of AB 2494, the diversion quantities of other aluminum and other ferrous metals and whites goods recovered in the landfill salvage program are still included in the baseline waste generation data. However, the diversion quantity of inert solids diverted through the asphalt salvage program have been eliminated from the waste generation data because the three criteria

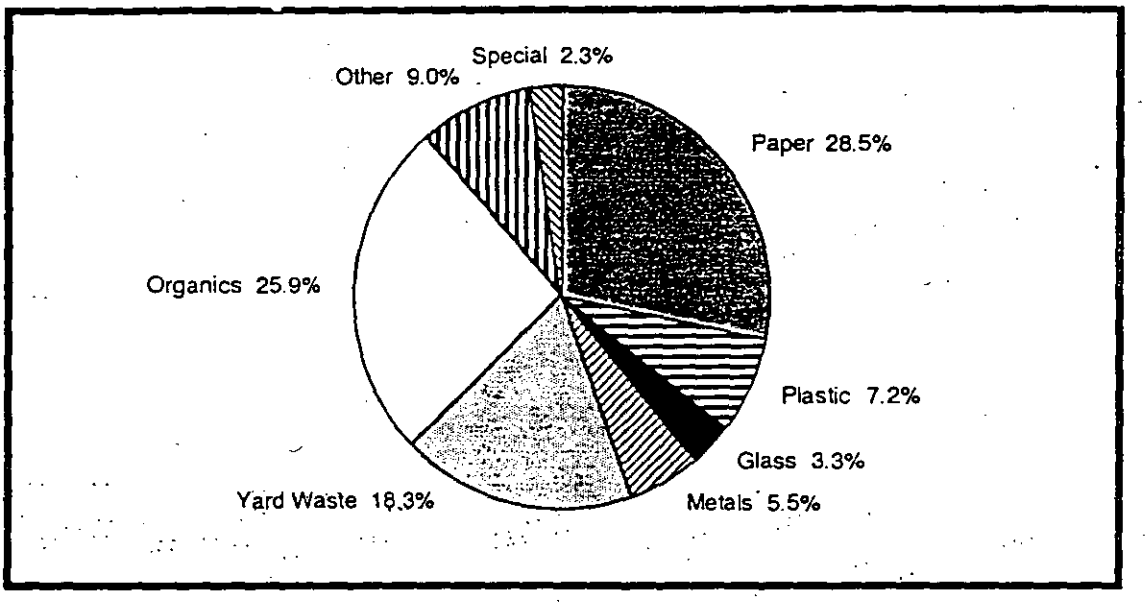
listed above are not met. Based on the elimination of this diversion activity from the baseline waste generation data, the existing diversion tonnage is reduced from 171 tons to 170 tons; the 2.5% baseline diversion level remains unchanged.

Types of Waste Disposed and Diverted

A profile of the waste disposal and waste diversion streams, modified to exclude the inert solids as described above, is included as Appendix I to this petition. Summaries of the types of waste disposed of and diverted in the City of Farmersville are provided in Figures 1 and 2.

Figure 1

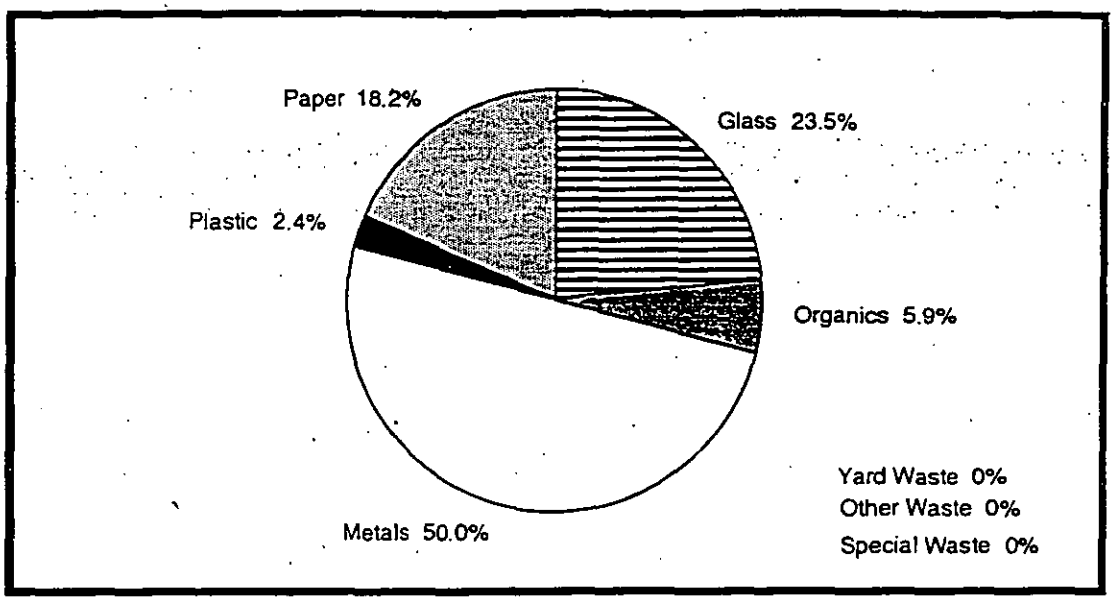
WASTE DISPOSAL COMPOSITION SUMMARY



Source: Source Reduction and Recycling Element, City of Farmersville, May 1992.

Figure 2

WASTE DIVERSION COMPOSITION SUMMARY



Source: Source Reduction and Recycling Element, City of Farmersville, May 1992.

5.0 REASONS WHY A 25% DIVERSION LEVEL CANNOT BE ACHIEVED

5.1 Programs Selected in the SRRE

A summary of the new diversion and education and public information programs initially selected in the City's SRRE for implementation in the short-term planning period is provided below. Table 3 summarizes the estimated program costs and material diversion rates to be realized if each of these new programs were implemented.

Source Reduction Programs

1. Public Education and Technical Assistance programs including:

    a. Provide technical assistance to businesses and consumers / homeowners through workshops and seminars on source reduction techniques and activities.

    b. Provide public education efforts through the media, the school system, and City offices programs to increase awareness of source reduction and waste management issues.

    c. Provide public recognition and awards to individuals and businesses that implement source reduction activities.

d. Promote backyard composting and xeriscaping.

e. Promote the use of cloth diapers in lieu of disposables.

2. Rate Modification programs including:

   a. The City will consider the practicality of modifications to the current residential collection rate structure to a quantity-based user fee for both commercial and residential collection; the City will continue its quantity-based user fee for commercial waste collection.

   b. Disposal fee modification to encourage the delivery of segregated loads to the landfill of certain divertable materials. (Note: The County of Tulare will develop this program. Should the County choose not to implement this alternative, the City does not have the authority to modify disposal fees, and therefore this alternative would not be implemented.)

3. Regulatory programs to encourage source reduction on the part of local government, private businesses, and City residents including:

   a. A City offices procurement program and policy to encourage source reduction through purchasing decisions. Purchase preferences will be extended to materials and products that have minimal packaging, are supplied in bulk, and are reusable, recyclable, and durable.

Recycling Programs

4. Develop a residential curbside recycling program to collect and recycle aluminum and tin cans, PET, HDPE, newspaper, CA redemption and other recyclable glass. Residents dwelling in multi-family units will be encouraged to use existing buy-back and drop-off centers to recycle aluminum and tin cans, PET, HDPE, newspaper, CA redemption and other recyclable glass.

5. Develop a commercial / industrial recycling program to collect and recycle ferrous metals, newspaper, and corrugated cardboard.

6. The County currently salvages materials at the Woodville Disposal Site. This program would expand the salvaging program and would recover corrugated cardboard, all metals, and inert solids from roll-off boxes and self-haul loads. This program will be developed and operated by the County, with assistance from the City.

Composting Programs

7. Establish a residential yard waste collection program.

8. Establish/expand a yard and wood waste drop-off program at the County landfills.

9. Develop a windrow composting system.

Special Waste Programs

No special waste programs were identified for consideration or selected.

Education and Public Information Programs

10. Outreach efforts including:
    - Coordination with Community Groups and Government Agencies
    - Coordination with Non-Profit Organizations
    - Participation in Local Events

11. Technical Assistance efforts including:
    - Junk Mail Reduction Program
    - Brochures
    - How-to Information
    - Technical Assistance
    - Recycling Videos

12. Public Awareness efforts including:
    - Environmental Shopping Campaign
    - Contests and Displays
    - Promotional Materials

13. Education efforts including:
    - Environmental Education Curriculum
    - Special Assemblies, Field Trips

Summary of Programs Selected and Cost

The estimated program costs and material diversion to be realized through implementation of the programs initially selected in the City's SRRE for the short-term planning period are presented in Table 3.

5.2 Barriers to Successful Program Implementation

The factors present in the City of Farmersville which present significant barriers to successful implementation of programs that would allow the City to achieve the 25% diversion goal include limited availability of City staff and lack of funding associated with the small size of the City and corresponding waste generation. Additionally, the lack of commercial and industrial enterprises of significant size that would provide waste streams that are easily and economically targeted for implementation of diversion programs contribute to the City's inability to achieve the 25% diversion goal. The conditions associated with limited staff availability and funding sources are further described below.

Limited Availability of City Staff

The City has limited staff available to coordinate and monitor the implementation and operation of new activities such as waste diversion and recycling programs. The City's SRRE included plans for hiring a Program Coordinator for recycling, composting, and public education programs to be shared with the Cities of Woodlake, Exeter and Lindsay; however, this plan had to be abandoned due to lack of adequate financial resources. Thus, program implementation must now be coordinated by the remaining staff resources who have other responsibilities concerning the City's operations.

The City Manager is responsible for solid waste programs as well as AB 939 compliance. This individual is also responsible for administration of all City departments, acts as liaison between the City Council and department heads, responsible for carrying out City Council directives for all programs, projects and activities, serves as personnel, purchasing and recreation director, and serves as the Executive Director for the City's Redevelopment Agency. The City does not have an assistant City Manager. The salary and benefits figure presented in the Solid Waste Budget (Table 4), includes bookkeeping for billing and collection, public works employees for delivery/pickup of waste cans to new/departing residents, and the City Clerk for contract documents and correspondence related to solid waste issues.

Coordination and implementation of the education and public information program and source reduction, recycling and composting programs proposed to achieve a 25% diversion level will significantly impact the work-load of the existing staff.

Program Costs vs. Revenue Sources

Estimated initial and annual program costs for the programs initially selected in the SRRE that were designed to achieve the additional 22.5% diversion level for a total diversion level of 25% are summarized in Table 3. The total initial program costs incurred directly by the City are estimated to be $111,900, while the annual program costs are estimated to be $145,200 per year. Implementation of these programs will substantially impact the financial resources of the City. Given the limited solid waste budget presented in Table 4 below, it is clear that the City cannot feasibly meet the diversion requirements in an efficient and cost effective manner.

Table 3

PROPOSED SHORT-TERM DIVERSION PROGRAMS - SRRE
Estimated Program Cost and Material Diversion[1]

Program	Initial Year's Cost	Annual Cost	Material Diversion %
Source Reduction Programs			
1. Public Education/Technical Assistance	___[2]	___[2]	0%
2. Rate Structure Modifications	___[3]	___[3]	0%
3. Regulatory Programs	___[3]	___[3]	0%
Recycling Programs			
4. Residential Curbside Recycling	$35,000	$47,500	4.7%
5. Commercial/Industrial Recycling	$11,800	$17,000	2.4%
6. County Landfill Salvage Programs	___[4]	___[4]	4.0%
Composting Programs			
7. Residential Yard Waste Collection	$29,250	$30,200	4.5%
8. Yard and Wood Waste Drop-off	___[5]	___[5]	7.3%
9. Windrow Composting System	$21,100	$35,750	___[8]
Education and Public Information Programs			
10. through 13.	$6,000	$6,000	N/A
Program Coordinator for Recycling/ Composting/Public Education Programs[7]	$8,750	$8,750	N/A
TOTAL	**$111,900**	**$145,200**	**22.9%[9]**

[1] Costs include the planning, implementation, and monitoring of programs.
[2] Costs are included in the education and public information program.
[3] Costs are included in existing programs.
[4] Costs are borne by the County.
[5] Assumes expansion of yard-waste drop-off programs operated at the County landfills and that the costs will be borne by the County.
[6] No additional costs are expected with continuation of this program.
[7] SRRE coordinator to be shared between four Cities (Woodlake, Exeter, Farmersville, and Lindsay); this plan has already been abandoned due to lack of funds.
[8] Diversion percentage included in above composting programs.
[9] With existing diversion of 2.5%, total future diversion would be 25.4%.
Source: Source Reduction and Recycling Element, City of Farmersville, May 1992.

The potential revenue source initially identified in the City's SRRE to fund these programs was increase in the solid waste collection rate structure. Solid waste collection in the City is financed by monthly billings for service on residential and commercial solid waste collection accounts. The City bills for the residential and commercial-can collection service that Western Waste Industries provides, and collects a 5% franchise fee. Western Waste Industries bills for all other commercial collection services; a franchise fee is not collected on the 87 commercial accounts billed directly by the hauler. The City's franchise fee is used to cover expenses associated with the billing and collection for residential and commercial-can accounts. The City collects an additional $1.00/month on residential and commercial-can accounts as a set aside for SRRE/HHWE preparation.

Included in the $28.00/ton tipping fee at the County owned and operated landfills is a $1.00 surcharge for countywide household hazardous waste programs and a $3.47 surcharge for County-sponsored diversion programs.

The current rate for residential solid waste collection is $13.80/month for one, 90-gallon container. The history of residential collection rate increases is as follows:

- July 1993: $13.80/month[1]
- July 1992: $12.80/month[2]
- July 1991: $11.05/month[3]
- July 1988: $ 7.80/month[4]
- July 1986: $ 5.00/month

[1] Fees increased to build up reserves for implementing AB 939 requirements.
[2] Fees increased to balance operating revenues/expenditures.
[3] Fees increased to $1.00 per ton surcharge for preparation of SRRE/HHWE plus cost of living and landfill rate increases.
[4] Fees increased when City went to contract waste collection.

For commercial solid waste collection, the current rates range from $28.30/month for a one yard bin, $59.00/month for a 3-yard bin, to $118.80/month for a 6-yard bin (once per week pick-up). Increases in the commercial collection rates were implemented in 1987, 1988, 1989, and 1991; however records of these increases are not readily available.

Table 4 summarizes the City's solid waste budget for Fiscal Year 1993-94.

Table 4

CITY OF FARMERSVILLE - SOLID WASTE BUDGET
Fiscal Year 1993-94

Expenses	
Salary and Benefits	17,000
Department Expense	3,000
Office Supplies	400
Training and Meetings	200
Contract Services: Western Waste Industries	252,000
Insurance	2,500
Computer Expense	1,500
Total Expenses	**$276,600**
Revenue	
Refuse User Fees	280,200
Investment Earnings	350
Total Revenue	**$280,550**
Reserves (approximate)[1]	**$16,000**

[1] Reserves are set aside for future City expense increases and for AB 939 implementation. However, proposed increases in landfill tipping fees may deplete this reserve.

Source: City of Farmersville 1993-1994 Fiscal Budget and Steven Thompson, City Manager, City of Farmersville.

For Fiscal Year 1993/94, the City's Budget allocated $276,600 for solid waste collection and related services, while the estimated revenue is $280,550. As shown in Table 4, the City's solid waste budget includes a reserve fund of approximately $16,000 plus a projected cash balance of $3,950 (revenues less expenses) for Fiscal Year 1993/94. These reserve funds are designated for future City expense increases and for AB 939 implementation. However, proposed increases in landfill tipping fees may deplete this reserve rather than using it for program implementation. With implementation of the residential yard waste collection and processing program, the school collection and drop off program for newspapers, increased use of the CA certified redemption

center, and associated education and public information program, the City could achieve a 12% diversion level. Funding for implementation of all of the programs required to meet the 25% diversion goal in an efficient and cost effective manner is not economically and feasible for the City. Additionally, the small population and economic base of the City places a strict limitation on the options for additional fees or taxes levied against local citizens and/or businesses.

5.3 Cost Impact of Full Implementation of SRRE Programs

The median household income for the City of Farmersville is substantially below that for California in general and is the lowest of all cities in Tulare County. The local economic base is small and the City, like most other jurisdictions in the State, is concerned about the continued viability of its local businesses and industries. To the extent possible the City attempts to minimize the burden that the cost of local programs and services places on its residents and businesses.

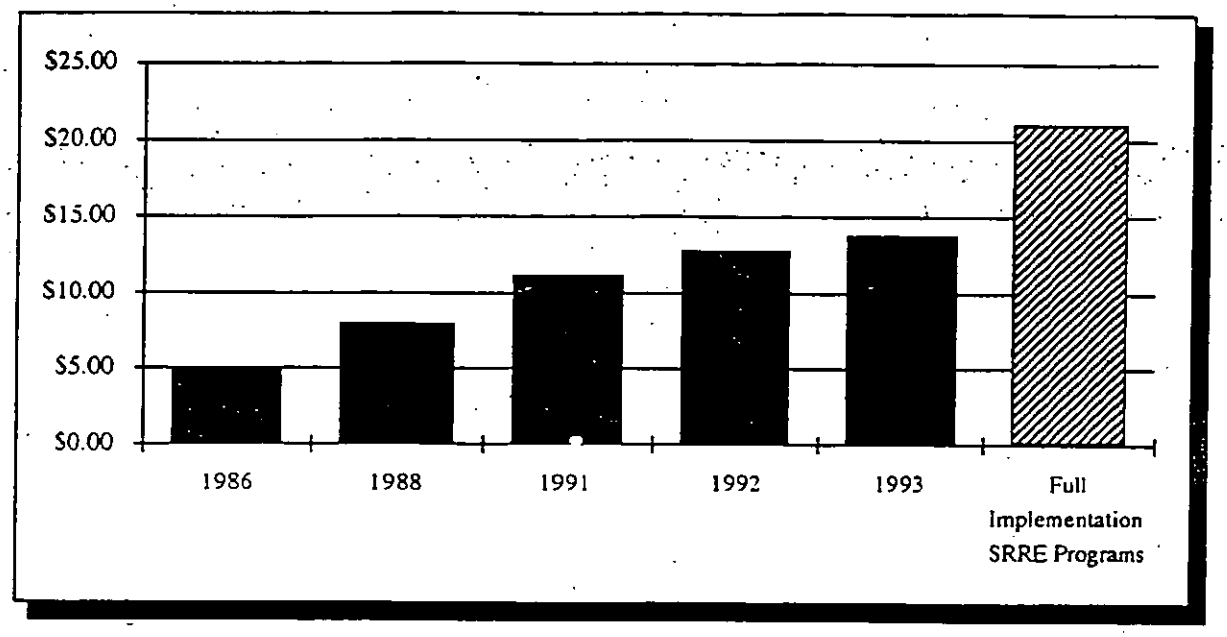
To achieve a 25% diversion rate through full implementation of the programs listed in the City's SRRE, the City's annual solid waste budget (Table 4) would have to be increased by at least 52%, to over $420,000. The increases that would be required in the average residential and commercial refuse collection rates to fund these expenses would be significant.

Recent trends in the residential refuse collection rates and the increase that would be required to fund full implementation of the SRRE programs are shown in Figure 3.

Figure 3

Residential Refuse Collection Rates

$/home/month



6.0 PROPOSED ALTERNATIVE WASTE DIVERSION PLAN

The City of Farmersville is committed to pursuing a waste reduction program that is effective in increasing the diversion of materials from local landfills but is also responsive to the fiscal realities of the City. Table 5 presents an alternative waste diversion plan for the short-term planning period based on modifications of programs selected for implementation in the SRRE.

The City is pursuing the development of a source separated yard waste collection program that will target yard waste from single family residences and self haulers. This program is anticipated to cost between $4.00 and $5.00/household/month. The yard waste will be collected weekly on a separate collection route. Initially, the yard waste will be hauled to the transfer and processing site at the County landfill. Yard waste material collected at this site would be converted into cogeneration or biomass fuel. Since this site is used by more than one jurisdiction, records will be kept of the amount of yard waste delivered by each jurisdiction.

Prior to the end of 1994, the yard waste materials will be diverted to a mulching operation developed in eastern Tulare County. Additionally, at least one private operator has announced plans for a composting facility that will serve the Tulare County area. As this or other facilities

become available, the City will evaluate the merits and costs of taking the yard waste to one of these facilities.

The City will develop a newspaper collection and drop off program with the local school and will target diversion of food and beverage containers by actively promoting increased use of the CA certified redemption center that currently serves the City. Participation in the yard waste and newspaper drop off programs as well as expanded use of the CA certified redemption center will be promoted through printed materials distributed with utility and tax bills. Special mailings and posters will be utilized as needed to announce the beginning or any major changes in the program. To the extent practical, the City will utilize materials from the media kit distributed by the CIWMB for mailings or for fliers, notices, or other materials distributed through the school system or mailed directly to residents and businesses.

As new markets for materials become available through the Recycling Market Development Zone, the City will investigate the feasibility of diverting materials to such facilities. The purchasing agent for the City will continue to monitor purchasing decisions to encourage the purchase of materials and products that are recycled, that have minimal packaging, are supplied in bulk, and are reusable, recyclable and divertable.

Table 5

PROPOSED ALTERNATIVE WASTE DIVERSION PLAN

Diversion Program	Diversion Tons/Yr. 1995	Percent Diversion 1995
Existing Programs[1]	179	2.5%
Residential Yard Waste Collection	570	8.0%
School Collection & Drop-off of Newspaper	35	0.5%
Increased Use of Buy-back Center	68	1.0%
Total	852	12.0%

[1] Existing diversion (1990) without inert solids.

7.0 MEDIUM-TERM DIVERSION PROGRAMS

The City also does not believe that it can feasibly achieve a 50% diversion level by the year 2000, and therefore intends to petition the CIWMB prior to the year 2000 for a reduction in this diversion mandate as well. At that time, the City will provide a report on the status of its existing diversion programs. The tentative medium-term diversion programs identified in the SRRE are summarized in Table 6, and include programs that would be deferred from implementation in the short-term planning period as a result of this petition. These programs are tentative until an alternative, reduced waste diversion plan would be reviewed by the CIWMB relative to the 50% diversion goal.

8.0 SOLID WASTE GENERATION PROJECTIONS

Revised fifteen-year projections of the waste disposal and diversion quantities by material type expected to be realized before and after the City implements the waste diversion programs described in Section 6.0 Proposed Alternative Waste Diversion Plan, above and presented in Section 7.0 Medium-Term Diversion Programs, are provided in Appendix II. These fifteen-year projections are based on the revised baseline waste generation data that excludes the inert solids that are diverted. A projected growth rate of 1.0% per year was assumed, based on the City's SRRE.

Table 6

TENTATIVE MEDIUM-TERM DIVERSION PROGRAMS
Estimated Material Diversion

Program	Material Diversion %
Source Reduction Programs	
1. Public Education/Technical Assistance	1.2%
2. Rate Modification	0%
3. Regulatory Programs	0%
Recycling Programs	
4. Residential Curbside Recycling	13.0%
5. Commercial/Industrial Recycling a. Material Recovery Operation	9.2%
6. County Landfill Salvage Programs[1]	6.7%
Composting Programs	
7. Residential Yard Waste Collection	7.2%
8. Yard and Wood Waste Drop-off a. Collect Alternative Feedstocks	10.2%
9. Windrow Composting System[2]	N/A
Education and Public Information Programs	
10. through 13.	N/A
Program Coordinator for Recycling/ Composting/Public Education Programs	N/A
TOTAL	**47.5%[4]**

[1] May be implemented in the short-term planning period.
[2] Diversion percentage included in above programs.
[3] May be counted towards diversion goal in the future.
[4] With existing diversion of 2.5%, total future diversion would be 50.%.
Source: Source Reduction and Recycling Element, City of Farmersville, May 1992.

Appendix I

Solid Waste Generation Profiles

City of Farmersville - Waste Disposal Profile (1991 Landfill Sampling Data)

	Residential	Commercial	Industrial	Self Haul	Total
OCC/Kraft	5.74%	14.97%	12.64%	6.08%	8.42%
Magazines	1.33%	0.93%	0.10%	0.61%	0.96%
Mixed Paper	9.23%	10.42%	5.98%	3.99%	7.89%
Newsprint	7.14%	3.99%	0.51%	1.91%	4.57%
High Grade	0.71%	3.11%	0.77%	0.80%	1.28%
Other Paper	6.58%	8.07%	2.98%	1.52%	5.33%
Subtotal Paper	**30.73%**	**41.49%**	**22.98%**	**14.91%**	**28.45%**
HDPE	1.05%	1.04%	1.28%	0.21%	0.85%
PET	0.40%	0.19%	0.02%	0.08%	0.24%
Film Plastics	3.40%	3.72%	5.02%	1.03%	2.98%
Polystyrene	0.45%	0.70%	0.34%	0.87%	0.61%
Other Plastic	2.73%	3.20%	3.05%	1.40%	2.51%
Subtotal Plastic	**8.03%**	**8.85%**	**9.71%**	**3.59%**	**7.18%**
Refillable Beverage	0.05%	0.00%	0.00%	0.15%	0.06%
CA Redemption Value	1.26%	1.13%	0.18%	0.80%	1.03%
Other Recyclable	2.51%	2.02%	0.31%	0.48%	1.71%
Other Non-Recyclable	0.61%	0.66%	0.04%	0.34%	0.51%
Subtotal Glass	**4.43%**	**3.81%**	**0.53%**	**1.77%**	**3.31%**
Aluminum Cans	0.30%	0.24%	0.02%	0.10%	0.21%
Other Aluminum	0.30%	0.38%	0.05%	0.04%	0.23%
Bi-metal Cans	0.00%	0.00%	0.10%	0.44%	0.12%
Steel Food & Bev. Cans	2.38%	1.47%	0.04%	0.34%	1.47%
Other Ferrous	2.48%	4.72%	2.76%	3.14%	3.18%
Other Non-ferrous	0.09%	0.06%	0.05%	0.02%	0.06%
White Goods	0.00%	0.00%	0.15%	0.96%	0.26%
Subtotal Metal	**5.55%**	**6.87%**	**3.17%**	**5.04%**	**5.54%**
Leaves and Grass	16.15%	4.21%	1.77%	9.26%	10.60%
Branches and Brush	5.27%	2.21%	10.67%	15.67%	7.70%
Subtotal Yard Waste	**21.42%**	**6.42%**	**12.44%**	**24.93%**	**18.29%**
Food	12.40%	9.51%	2.29%	3.53%	8.68%
Rubber/Tires	0.53%	1.77%	0.06%	1.10%	0.92%
Wood	1.68%	4.07%	22.33%	15.63%	7.40%
Agri. Crop Residue	0.00%	0.38%	1.42%	1.23%	0.51%
Manure	0.06%	0.00%	0.00%	0.97%	0.28%
Textiles/Leather	3.83%	3.72%	5.33%	2.80%	3.65%
Diapers	4.53%	2.70%	0.10%	0.44%	2.72%
Other Organics	2.10%	2.55%	0.36%	0.82%	1.74%
Subtotal Organics	**25.13%**	**24.70%**	**31.89%**	**26.52%**	**25.90%**
Inert Solids	3.04%	6.46%	18.65%	15.30%	8.17%
Hazardous Waste	0.47%	0.83%	0.01%	0.04%	0.40%
Appliances	0.51%	0.57%	0.03%	0.29%	0.43%
Subtotal Other Wastes	**4.02%**	**7.86%**	**18.69%**	**15.63%**	**9.01%**
Ash	0.00%	0.00%	0.02%	1.91%	0.50%
Sewage Sludge	0.00%	0.00%	0.00%	0.00%	0.00%
Industrial Sludge	0.00%	0.00%	0.00%	0.00%	0.00%
Asbestos	0.00%	0.00%	0.00%	0.00%	0.00%
Auto Shredder Waste	0.00%	0.00%	0.00%	0.00%	0.00%
Auto Bodies	0.00%	0.00%	0.20%	0.00%	0.01%
Stuffed Furn./Mattresses	0.69%	0.00%	0.37%	5.70%	1.82%
Subtotal Special Wastes	**0.69%**	**0.00%**	**0.59%**	**7.61%**	**2.33%**
Total	**100.00%**	**100.00%**	**100.00%**	**100.00%**	**100.00%**

City of Farmersville - Waste Disposal Profile (1991 Landfill Sampling Data)

	Residential	Commercial	Industrial	Self Haul	Total
OCC/Kraft	5.74%	14.97%	12.64%	6.08%	8.42%
Magazines	1.33%	0.93%	0.10%	0.61%	0.96%
Mixed Paper	9.23%	10.42%	5.98%	3.99%	7.89%
Newsprint	7.14%	3.99%	0.51%	1.91%	4.57%
High Grade	0.71%	3.11%	0.77%	0.80%	1.28%
Other Paper	6.58%	8.07%	2.98%	1.52%	5.33%
Subtotal Paper	**30.73%**	**41.49%**	**22.98%**	**14.91%**	**28.45%**
HDPE	1.05%	1.04%	1.28%	0.21%	0.85%
PET	0.40%	0.19%	0.02%	0.08%	0.24%
Film Plastics	3.40%	3.72%	5.02%	1.03%	2.98%
Polystyrene	0.45%	0.70%	0.34%	0.87%	0.61%
Other Plastic	2.73%	3.20%	3.05%	1.40%	2.51%
Subtotal Plastic	**8.03%**	**8.85%**	**9.71%**	**3.59%**	**7.18%**
Refillable Beverage	0.05%	0.00%	0.00%	0.15%	0.06%
CA Redemption Value	1.26%	1.13%	0.18%	0.80%	1.03%
Other Recyclable	2.51%	2.02%	0.31%	0.48%	1.71%
Other Non-Recyclable	0.61%	0.66%	0.04%	0.34%	0.51%
Subtotal Glass	**4.43%**	**3.81%**	**0.53%**	**1.77%**	**3.31%**
Aluminum Cans	0.30%	0.24%	0.02%	0.10%	0.21%
Other Aluminum	0.30%	0.38%	0.05%	0.04%	0.23%
Bi-metal Cans	0.00%	0.00%	0.10%	0.44%	0.12%
Steel Food & Bev. Cans	2.38%	1.47%	0.04%	0.34%	1.47%
Other Ferrous	2.48%	4.72%	2.76%	3.14%	3.18%
Other Non-ferrous	0.09%	0.06%	0.05%	0.02%	0.06%
White Goods	0.00%	0.00%	0.15%	0.96%	0.26%
Subtotal Metal	**5.55%**	**6.87%**	**3.17%**	**5.04%**	**5.54%**
Leaves and Grass	16.15%	4.21%	1.77%	9.26%	10.60%
Branches and Brush	5.27%	2.21%	10.67%	15.67%	7.70%
Subtotal Yard Waste	**21.42%**	**6.42%**	**12.44%**	**24.93%**	**18.29%**
Food	12.40%	9.51%	2.29%	3.53%	8.68%
Rubber/Tires	0.53%	1.77%	0.06%	1.10%	0.92%
Wood	1.68%	4.07%	22.33%	15.63%	7.40%
Agri. Crop Residue	0.00%	0.38%	1.42%	1.23%	0.51%
Manure	0.06%	0.00%	0.00%	0.97%	0.28%
Textiles/Leather	3.83%	3.72%	5.33%	2.80%	3.65%
Diapers	4.53%	2.70%	0.10%	0.44%	2.72%
Other Organics	2.10%	2.55%	0.36%	0.82%	1.74%
Subtotal Organics	**25.13%**	**24.70%**	**31.89%**	**26.52%**	**25.90%**
Inert Solids	3.04%	6.46%	18.65%	15.30%	8.17%
Hazardous Waste	0.47%	0.83%	0.01%	0.04%	0.40%
Appliances	0.51%	0.57%	0.03%	0.29%	0.43%
Subtotal Other Wastes	**4.02%**	**7.86%**	**18.69%**	**15.63%**	**9.01%**
Ash	0.00%	0.00%	0.02%	1.91%	0.50%
Sewage Sludge	0.00%	0.00%	0.00%	0.00%	0.00%
Industrial Sludge	0.00%	0.00%	0.00%	0.00%	0.00%
Asbestos	0.00%	0.00%	0.00%	0.00%	0.00%
Auto Shredder Waste	0.00%	0.00%	0.00%	0.00%	0.00%
Auto Bodies	0.00%	0.00%	0.20%	0.00%	0.01%
Stuffed Furn./Mattresses	0.69%	0.00%	0.37%	5.70%	1.82%
Subtotal Special Wastes	**0.69%**	**0.00%**	**0.59%**	**7.61%**	**2.33%**
Total	100.00%	100.00%	100.00%	100.00%	100.00%

Appendix II

15-Year Projections of Waste Disposal and Diversion

Existing Conditions and With Program Implementation

15 YEAR WASTE GENERATION PROJECTIONS - City of Farmersville

Existing Conditions

WASTE TYPE	1991				1992			
	Disposal	Diversion	Generation	Diversion Percent	Disposal	Diversion	Generation	Diversion Percent
Paper								
OCC/Kraft	545	31	577	5.4%	551	32	582	5.4%
Magazines	63	0	63	0.0%	63	0	63	0.0%
Mixed Paper	511	0	511	0.0%	516	0	516	0.0%
Newspaper	296	0	296	0.0%	299	0	299	0.0%
High Grade	83	0	83	0.0%	84	0	84	0.0%
Other Paper	344	0	344	0.0%	348	0	348	0.0%
Subtotal	**1,842**	**31**	**1,874**	**1.7%**	**1,861**	**32**	**1,892**	**1.7%**
Plastic								
HDPE	55	0	55	0.0%	55	0	55	0.0%
PET	15	4	19	21.1%	15	4	19	21.1%
Film Plastics	193	0	193	0.0%	195	0	195	0.0%
Polystyrene	39	0	39	0.0%	40	0	40	0.0%
Other Plastic	163	0	163	0.0%	164	0	164	0.0%
Subtotal	**465**	**4**	**469**	**0.9%**	**469**	**4**	**473**	**0.9%**
Glass								
Refillable Beverage	4	0	4	0.0%	4	0	4	0.0%
CA Redemption Value	67	30	97	31.3%	67	31	98	31.3%
Other Recyclable	110	10	120	8.4%	111	10	121	8.4%
Other Non-recyclable	33	0	33	0.0%	34	0	34	0.0%
Subtotal	**214**	**40**	**255**	**15.9%**	**216**	**41**	**257**	**15.9%**
Metals								
Aluminum Cans	14	47	62	77.0%	14	48	62	77.0%
Other Aluminum	15	8	23	34.8%	15	8	23	34.8%
Bi-metal Cans	8	0	8	0.0%	8	0	8	0.0%
Steel Food & Bev. Cans	95	30	125	24.2%	96	31	126	24.2%
Other Ferrous	206	0	206	0.0%	208	0	208	0.0%
Other Non-ferrous	4	0	4	0.0%	4	0	4	0.0%
White Goods	17	0	17	0.0%	17	0	17	0.0%
Subtotal	**360**	**86**	**445**	**19.3%**	**363**	**87**	**450**	**19.3%**
Yard Waste								
Leaves and Grass	697	0	697	0.0%	704	0	704	0.0%
Branches and Brush	628	0	628	0.0%	635	0	635	0.0%
Subtotal	**1,325**	**0**	**1,325**	**0.0%**	**1,338**	**0**	**1,338**	**0.0%**
Organics								
Food	563	0	563	0.0%	568	0	568	0.0%
Rubber/Tires	71	10	81	12.5%	71	10	82	12.5%
Wood	479	0	479	0.0%	484	0	484	0.0%
Agri. Crop Residue	33	0	33	0.0%	34	0	34	0.0%
Manure	18	0	18	0.0%	18	0	18	0.0%
Textiles/Leather	236	0	236	0.0%	239	0	239	0.0%
Diapers	176	0	176	0.0%	177	0	177	0.0%
Other Organics	112	0	112	0.0%	113	0	113	0.0%
Subtotal	**1,688**	**10**	**1,698**	**0.6%**	**1,705**	**10**	**1,715**	**0.6%**
Other Wastes								
Inert Solids	529	0	529	0.0%	535	0	535	0.0%
Hazardous Waste	26	0	26	0.0%	27	0	27	0.0%
Appliances	28	0	28	0.0%	29	0	29	0.0%
Subtotal	**584**	**0**	**584**	**0.0%**	**590**	**0**	**590**	**0.0%**
Ash	32	0	32	0.0%	33	0	33	0.0%
Sewage Sludge	0	0	0	0.0%	0	0	0	0.0%
Industrial Sludge	0	0	0	0.0%	0	0	0	0.0%
Asbestos	0	0	0	0.0%	0	0	0	0.0%
Auto Shredder Waste	0	0	0	0.0%	0	0	0	0.0%
Auto Bodies	1	0	1	0.0%	1	0	1	0.0%
Stuffed Furn./Mattresses	117	0	117	0.0%	118	0	118	0.0%
Subtotal	**150**	**0**	**150**	**0.0%**	**152**	**0**	**152**	**0.0%**
Total Waste	**6,628**	**172**	**6,799**	**2.5%**	**6,694**	**173**	**6,867**	**2.5%**

15 YEAR WASTE GENERATION PROJECTIONS - City of Farmersville

Existing Conditions

WASTE TYPE	1993				1994			
	Disposal	Diversion	Generation	Diversion Percent	Disposal	Diversion	Generation	Diversion Percent
Paper								
OCC/Kraft	556	32	588	5.4%	562	32	594	5.4%
Magazines	64	0	64	0.0%	65	0	65	0.0%
Mixed Paper	521	0	521	0.0%	527	0	527	0.0%
Newspaper	302	0	302	0.0%	305	0	305	0.0%
High Grade	84	0	84	0.0%	85	0	85	0.0%
Other Paper	351	0	351	0.0%	355	0	355	0.0%
Subtotal	**1,879**	**32**	**1,911**	**1.7%**	**1,898**	**32**	**1,930**	**1.7%**
Plastic								
HDPE	56	0	56	0.0%	56	0	56	0.0%
PET	15	4	20	21.1%	16	4	20	21.1%
Film Plastics	197	0	197	0.0%	199	0	199	0.0%
Polystyrene	40	0	40	0.0%	41	0	41	0.0%
Other Plastic	166	0	166	0.0%	168	0	168	0.0%
Subtotal	**474**	**4**	**478**	**0.9%**	**479**	**4**	**483**	**0.9%**
Glass								
Refillable Beverage	4	0	4	0.0%	4	0	4	0.0%
CA Redemption Value	68	31	99	31.3%	69	31	100	31.3%
Other Recyclable	112	10	123	8.4%	113	10	124	8.4%
Other Non-recyclable	34	0	34	0.0%	34	0	34	0.0%
Subtotal	**218**	**41**	**260**	**15.9%**	**221**	**42**	**262**	**15.9%**
Metals								
Aluminum Cans	14	48	63	77.0%	15	49	63	77.0%
Other Aluminum	15	8	24	34.8%	16	8	24	34.8%
Bi-metal Cans	8	0	8	0.0%	8	0	8	0.0%
Steel Food & Bev. Cans	97	31	128	24.2%	98	31	129	24.2%
Other Ferrous	210	0	210	0.0%	212	0	212	0.0%
Other Non-ferrous	4	0	4	0.0%	4	0	4	0.0%
White Goods	18	0	18	0.0%	18	0	18	0.0%
Subtotal	**367**	**88**	**454**	**19.3%**	**370**	**88**	**459**	**19.3%**
Yard Waste								
Leaves and Grass	711	0	711	0.0%	718	0	718	0.0%
Branches and Brush	641	0	641	0.0%	647	0	647	0.0%
Subtotal	**1,352**	**0**	**1,352**	**0.0%**	**1,365**	**0**	**1,365**	**0.0%**
Organics								
Food	574	0	574	0.0%	580	0	580	0.0%
Rubber/Tires	72	10	82	12.5%	73	10	83	12.5%
Wood	488	0	488	0.0%	493	0	493	0.0%
Agri. Crop Residue	34	0	34	0.0%	34	0	34	0.0%
Manure	19	0	19	0.0%	19	0	19	0.0%
Textiles/Leather	241	0	241	0.0%	244	0	244	0.0%
Diapers	179	0	179	0.0%	181	0	181	0.0%
Other Organics	114	0	114	0.0%	116	0	116	0.0%
Subtotal	**1,722**	**10**	**1,732**	**0.6%**	**1,739**	**10**	**1,749**	**0.6%**
Other Wastes								
Inert Solids	540	0	540	0.0%	545	0	545	0.0%
Hazardous Waste	27	0	27	0.0%	27	0	27	0.0%
Appliances	29	0	29	0.0%	29	0	29	0.0%
Subtotal	**596**	**0**	**596**	**0.0%**	**601**	**0**	**601**	**0.0%**
Ash	33	0	33	0.0%	33	0	33	0.0%
Sewage Sludge	0	0	0	0.0%	0	0	0	0.0%
Industrial Sludge	0	0	0	0.0%	0	0	0	0.0%
Asbestos	0	0	0	0.0%	0	0	0	0.0%
Auto Shredder Waste	0	0	0	0.0%	0	0	0	0.0%
Auto Bodies	1	0	1	0.0%	1	0	1	0.0%
Stuffed Furn./Mattresses	120	0	120	0.0%	121	0	121	0.0%
Subtotal	**154**	**0**	**154**	**0.0%**	**155**	**0**	**155**	**0.0%**
Total Waste	**6,761**	**175**	**6,936**	**2.5%**	**6,828**	**177**	**7,005**	**2.5%**

15 YEAR WASTE GENERATION PROJECTIONS - City of Farmersville

Existing Conditions

WASTE TYPE	1995				1996			
	Disposal	Diversion	Generation	Diversion Percent	Disposal	Diversion	Generation	Diversion Percent
aper								
OCC/Kraft	568	33	600	5.4%	573	33	606	5.4%
Magazines	65	0	65	0.0%	66	0	66	0.0%
Mixed Paper	532	0	532	0.0%	537	0	537	0.0%
Newspaper	308	0	308	0.0%	311	0	311	0.0%
High Grade	86	0	86	0.0%	87	0	87	0.0%
Other Paper	358	0	358	0.0%	362	0	362	0.0%
Subtotal	**1,917**	**33**	**1,950**	**1.7%**	**1,936**	**33**	**1,969**	**1.7%**
lastic								
HDPE	57	0	57	0.0%	57	0	57	0.0%
PET	16	4	20	21.1%	16	4	20	21.1%
Film Plastics	201	0	201	0.0%	203	0	203	0.0%
Polystyrene	41	0	41	0.0%	41	0	41	0.0%
Other Plastic	169	0	169	0.0%	171	0	171	0.0%
Subtotal	**483**	**4**	**488**	**0.9%**	**488**	**4**	**493**	**0.9%**
lass								
Refillable Beverage	4	0	4	0.0%	4	0	4	0.0%
CA Redemption Value	69	32	101	31.3%	70	32	102	31.3%
Other Recyclable	115	11	125	8.4%	116	11	126	8.4%
Other Non-recyclable	35	0	35	0.0%	35	0	35	0.0%
Subtotal	**223**	**42**	**265**	**15.9%**	**225**	**42**	**268**	**15.9%**
ietals								
Aluminum Cans	15	49	64	77.0%	15	50	65	77.0%
Other Aluminum	16	8	24	34.8%	16	8	24	34.8%
Bi-metal Cans	8	0	8	0.0%	8	0	8	0.0%
Steel Food & Bev. Cans	99	32	130	24.2%	100	32	132	24.2%
Other Ferrous	214	0	214	0.0%	217	0	217	0.0%
Other Non-ferrous	4	0	4	0.0%	4	0	4	0.0%
White Goods	18	0	18	0.0%	18	0	18	0.0%
Subtotal	**374**	**89**	**463**	**19.3%**	**378**	**90**	**468**	**19.3%**
ird Waste								
Leaves and Grass	725	0	725	0.0%	732	0	732	0.0%
Branches and Brush	654	0	654	0.0%	660	0	660	0.0%
Subtotal	**1,379**	**0**	**1,379**	**0.0%**	**1,393**	**0**	**1,393**	**0.0%**
ganics								
Food	585	0	585	0.0%	591	0	591	0.0%
Rubber/Tires	74	11	84	12.5%	74	11	85	12.5%
Wood	498	0	498	0.0%	503	0	503	0.0%
Agri. Crop Residue	35	0	35	0.0%	35	0	35	0.0%
Manure	19	0	19	0.0%	19	0	19	0.0%
Textiles/Leather	246	0	246	0.0%	248	0	248	0.0%
Diapers	183	0	183	0.0%	185	0	185	0.0%
Other Organics	117	0	117	0.0%	118	0	118	0.0%
Subtotal	**1,756**	**11**	**1,767**	**0.6%**	**1,774**	**11**	**1,784**	**0.6%**
her Wastes								
Inert Solids	551	0	551	0.0%	556	0	556	0.0%
Hazardous Waste	27	0	27	0.0%	28	0	28	0.0%
Appliances	29	0	29	0.0%	30	0	30	0.0%
Subtotal	**607**	**0**	**607**	**0.0%**	**614**	**0**	**614**	**0.0%**
Ash	34	0	34	0.0%	34	0	34	0.0%
Sewage Sludge	0	0	0	0.0%	0	0	0	0.0%
Industrial Sludge	0	0	0	0.0%	0	0	0	0.0%
Asbestos	0	0	0	0.0%	0	0	0	0.0%
Auto Shredder Waste	0	0	0	0.0%	0	0	0	0.0%
Auto Bodies	1	0	1	0.0%	1	0	1	0.0%
Stuffed Furn./Mattresses	122	0	122	0.0%	123	0	123	0.0%
Subtotal	**157**	**0**	**157**	**0.0%**	**158**	**0**	**158**	**0.0%**
Total Waste	**6,897**	**179**	**7,075**	**2.5%**	**6,966**	**180**	**7,146**	**2.5%**

15 YEAR WASTE GENERATION PROJECTIONS - City of Farmersville

Existing Conditions

WASTE TYPE	1997				1998			
	Disposal	Diversion	Generation	Diversion Percent	Disposal	Diversion	Generation	Diversion Percent
Paper								
OCC/Kraft	579	33	612	5.4%	585	34	618	5.4%
Magazines	66	0	66	0.0%	67	0	67	0.0%
Mixed Paper	543	0	543	0.0%	548	0	548	0.0%
Newspaper	314	0	314	0.0%	317	0	317	0.0%
High Grade	88	0	88	0.0%	89	0	89	0.0%
Other Paper	366	0	366	0.0%	369	0	369	0.0%
Subtotal	**1,956**	**33**	**1,989**	**1.7%**	**1,975**	**34**	**2,009**	**1.7%**
Plastic								
HDPE	58	0	58	0.0%	58	0	58	0.0%
PET	16	4	20	21.1%	16	4	21	21.1%
Film Plastics	205	0	205	0.0%	207	0	207	0.0%
Polystyrene	42	0	42	0.0%	42	0	42	0.0%
Other Plastic	173	0	173	0.0%	174	0	174	0.0%
Subtotal	**493**	**4**	**497**	**0.9%**	**498**	**4**	**502**	**0.9%**
Glass								
Refillable Beverage	4	0	4	0.0%	4	0	4	0.0%
CA Redemption Value	71	32	103	31.3%	71	32	104	31.3%
Other Recyclable	117	11	128	8.4%	118	11	129	8.4%
Other Non-recyclable	35	0	35	0.0%	36	0	36	0.0%
Subtotal	**227**	**43**	**270**	**15.9%**	**230**	**43**	**273**	**15.9%**
Metals								
Aluminum Cans	15	50	65	77.0%	15	51	66	77.0%
Other Aluminum	16	9	25	34.8%	16	9	25	34.8%
Bi-metal Cans	9	0	9	0.0%	9	0	9	0.0%
Steel Food & Bev. Cans	101	32	133	24.2%	102	32	134	24.2%
Other Ferrous	219	0	219	0.0%	221	0	221	0.0%
Other Non-ferrous	4	0	4	0.0%	4	0	4	0.0%
White Goods	18	0	18	0.0%	18	0	18	0.0%
Subtotal	**382**	**91**	**473**	**19.3%**	**385**	**92**	**478**	**19.3%**
Yard Waste								
Leaves and Grass	740	0	740	0.0%	747	0	747	0.0%
Branches and Brush	667	0	667	0.0%	674	0	674	0.0%
Subtotal	**1,407**	**0**	**1,407**	**0.0%**	**1,421**	**0**	**1,421**	**0.0%**
Organics								
Food	597	0	597	0.0%	603	0	603	0.0%
Rubber/Tires	75	11	86	12.5%	76	11	87	12.5%
Wood	508	0	508	0.0%	513	0	513	0.0%
Agri. Crop Residue	35	0	35	0.0%	36	0	36	0.0%
Manure	19	0	19	0.0%	19	0	19	0.0%
Textiles/Leather	251	0	251	0.0%	253	0	253	0.0%
Diapers	187	0	187	0.0%	188	0	188	0.0%
Other Organics	119	0	119	0.0%	120	0	120	0.0%
Subtotal	**1,792**	**11**	**1,802**	**0.6%**	**1,809**	**11**	**1,820**	**0.6%**
Other Wastes								
Inert Solids	562	0	562	0.0%	567	0	567	0.0%
Hazardous Waste	28	0	28	0.0%	28	0	28	0.0%
Appliances	30	0	30	0.0%	30	0	30	0.0%
Subtotal	**620**	**0**	**620**	**0.0%**	**626**	**0**	**626**	**0.0%**
Ash	34	0	34	0.0%	35	0	35	0.0%
Sewage Sludge	0	0	0	0.0%	0	0	0	0.0%
Industrial Sludge	0	0	0	0.0%	0	0	0	0.0%
Asbestos	0	0	0	0.0%	0	0	0	0.0%
Auto Shredder Waste	0	0	0	0.0%	0	0	0	0.0%
Auto Bodies	1	0	1	0.0%	1	0	1	0.0%
Stuffed Furn./Mattresses	124	0	124	0.0%	126	0	126	0.0%
Subtotal	**160**	**0**	**160**	**0.0%**	**161**	**0**	**161**	**0.0%**
Total Waste	**7,035**	**182**	**7,218**	**2.5%**	**7,106**	**184**	**7,290**	**2.5%**

15 YEAR WASTE GENERATION PROJECTIONS - City of Farmersville

Existing Conditions

WASTE TYPE	1999				2000			
	Disposal	Diversion	Generation	Diversion Percent	Disposal	Diversion	Generation	Diversion Percent
per								
OCC/Kraft	591	34	624	5.4%	596	34	631	5.4%
Magazines	68	0	68	0.0%	68	0	68	0.0%
Mixed Paper	553	0	553	0.0%	559	0	559	0.0%
Newspaper	320	0	320	0.0%	324	0	324	0.0%
High Grade	90	0	90	0.0%	91	0	91	0.0%
Other Paper	373	0	373	0.0%	377	0	377	0.0%
Subtotal	**1,995**	**34**	**2,029**	**1.7%**	**2,015**	**34**	**2,049**	**1.7%**
stic								
HDPE	59	0	59	0.0%	60	0	60	0.0%
PET	16	4	21	21.1%	17	4	21	21.1%
Film Plastics	209	0	209	0.0%	211	0	211	0.0%
Polystyrene	43	0	43	0.0%	43	0	43	0.0%
Other Plastic	176	0	176	0.0%	178	0	178	0.0%
Subtotal	**503**	**4**	**507**	**0.9%**	**508**	**4**	**513**	**0.9%**
ss								
Refillable Beverage	4	0	4	0.0%	4	0	4	0.0%
CA Redemption Value	72	33	105	31.3%	73	33	106	31.3%
Other Recyclable	119	11	130	8.4%	120	11	131	8.4%
Other Non-recyclable	36	0	36	0.0%	36	0	36	0.0%
Subtotal	**232**	**44**	**276**	**15.9%**	**234**	**44**	**278**	**15.9%**
tals								
Aluminum Cans	15	51	67	77.0%	15	52	67	77.0%
Other Aluminum	16	9	25	34.8%	17	9	25	34.8%
Bi-metal Cans	9	0	9	0.0%	9	0	9	0.0%
Steel Food & Bev. Cans	103	33	136	24.2%	104	33	137	24.2%
Other Ferrous	223	0	223	0.0%	225	0	225	0.0%
Other Non-ferrous	4	0	4	0.0%	4	0	4	0.0%
White Goods	19	0	19	0.0%	19	0	19	0.0%
Subtotal	**389**	**93**	**482**	**19.3%**	**393**	**94**	**487**	**19.3%**
d Waste								
Leaves and Grass	755	0	755	0.0%	762	0	762	0.0%
Branches and Brush	680	0	680	0.0%	687	0	687	0.0%
Subtotal	**1,435**	**0**	**1,435**	**0.0%**	**1,449**	**0**	**1,449**	**0.0%**
anics								
Food	609	0	609	0.0%	615	0	615	0.0%
Rubber/Tires	77	11	87	12.5%	77	11	88	12.5%
Wood	518	0	518	0.0%	524	0	524	0.0%
Agri. Crop Residue	36	0	36	0.0%	36	0	36	0.0%
Manure	20	0	20	0.0%	20	0	20	0.0%
Textiles/Leather	256	0	256	0.0%	258	0	258	0.0%
Diapers	190	0	190	0.0%	192	0	192	0.0%
Other Organics	121	0	121	0.0%	123	0	123	0.0%
Subtotal	**1,828**	**11**	**1,838**	**0.6%**	**1,846**	**11**	**1,857**	**0.6%**
r Wastes								
Inert Solids	573	0	573	0.0%	579	0	579	0.0%
Hazardous Waste	28	0	28	0.0%	29	0	29	0.0%
Appliances	31	0	31	0.0%	31	0	31	0.0%
Subtotal	**632**	**0**	**632**	**0.0%**	**638**	**0**	**638**	**0.0%**
Ash	35	0	35	0.0%	35	0	35	0.0%
Sewage Sludge	0	0	0	0.0%	0	0	0	0.0%
Industrial Sludge	0	0	0	0.0%	0	0	0	0.0%
Asbestos	0	0	0	0.0%	0	0	0	0.0%
Auto Shredder Waste	0	0	0	0.0%	0	0	0	0.0%
Auto Bodies	1	0	1	0.0%	1	0	1	0.0%
Stuffed Furn./Mattresses	127	0	127	0.0%	128	0	128	0.0%
Subtotal	**163**	**0**	**163**	**0.0%**	**165**	**0**	**165**	**0.0%**
Total Waste	**7,177**	**186**	**7,363**	**2.5%**	**7,249**	**188**	**7,436**	**2.5%**

15 YEAR WASTE GENERATION PROJECTIONS - City of Farmersville

Existing Conditions

WASTE TYPE	2001				2002			
	Disposal	Diversion	Generation	Diversion Percent	Disposal	Diversion	Generation	Diversion Percent
Paper								
OCC/Kraft	602	35	637	5.4%	608	35	643	5.4%
Magazines	69	0	69	0.0%	70	0	70	0.0%
Mixed Paper	565	0	565	0.0%	570	0	570	0.0%
Newspaper	327	0	327	0.0%	330	0	330	0.0%
High Grade	91	0	91	0.0%	92	0	92	0.0%
Other Paper	380	0	380	0.0%	384	0	384	0.0%
Subtotal	**2,035**	**35**	**2,070**	**1.7%**	**2,055**	**35**	**2,090**	**1.7%**
Plastic								
HDPE	60	0	60	0.0%	61	0	61	0.0%
PET	17	4	21	21.1%	17	5	21	21.1%
Film Plastics	213	0	213	0.0%	215	0	215	0.0%
Polystyrene	44	0	44	0.0%	44	0	44	0.0%
Other Plastic	180	0	180	0.0%	181	0	181	0.0%
Subtotal	**513**	**4**	**518**	**0.9%**	**518**	**5**	**523**	**0.9%**
Glass								
Refillable Beverage	4	0	4	0.0%	5	0	5	0.0%
CA Redemption Value	74	33	107	31.3%	74	34	108	31.3%
Other Recyclable	122	11	133	8.4%	123	11	134	8.4%
Other Non-recyclable	37	0	37	0.0%	37	0	37	0.0%
Subtotal	**237**	**45**	**281**	**15.9%**	**239**	**45**	**284**	**15.9%**
Metals								
Aluminum Cans	16	52	68	77.0%	16	53	69	77.0%
Other Aluminum	17	9	26	34.8%	17	9	26	34.8%
Bi-metal Cans	9	0	9	0.0%	9	0	9	0.0%
Steel Food & Bev. Cans	105	33	138	24.2%	106	34	140	24.2%
Other Ferrous	228	0	228	0.0%	230	0	230	0.0%
Other Non-ferrous	4	0	4	0.0%	5	0	5	0.0%
White Goods	19	0	19	0.0%	19	0	19	0.0%
Subtotal	**397**	**95**	**492**	**19.3%**	**401**	**96**	**497**	**19.3%**
Yard Waste								
Leaves and Grass	770	0	770	0.0%	778	0	778	0.0%
Branches and Brush	694	0	694	0.0%	701	0	701	0.0%
Subtotal	**1,464**	**0**	**1,464**	**0.0%**	**1,478**	**0**	**1,478**	**0.0%**
Organics								
Food	621	0	621	0.0%	628	0	628	0.0%
Rubber/Tires	78	11	89	12.5%	79	11	90	12.5%
Wood	529	0	529	0.0%	534	0	534	0.0%
Agri. Crop Residue	37	0	37	0.0%	37	0	37	0.0%
Manure	20	0	20	0.0%	20	0	20	0.0%
Textiles/Leather	261	0	261	0.0%	264	0	264	0.0%
Diapers	194	0	194	0.0%	196	0	196	0.0%
Other Organics	124	0	124	0.0%	125	0	125	0.0%
Subtotal	**1,864**	**11**	**1,875**	**0.6%**	**1,883**	**11**	**1,894**	**0.6%**
Other Wastes								
Inert Solids	585	0	585	0.0%	590	0	590	0.0%
Hazardous Waste	29	0	29	0.0%	29	0	29	0.0%
Appliances	31	0	31	0.0%	32	0	32	0.0%
Subtotal	**645**	**0**	**645**	**0.0%**	**651**	**0**	**651**	**0.0%**
Ash	36	0	36	0.0%	36	0	36	0.0%
Sewage Sludge	0	0	0	0.0%	0	0	0	0.0%
Industrial Sludge	0	0	0	0.0%	0	0	0	0.0%
Asbestos	0	0	0	0.0%	0	0	0	0.0%
Auto Shredder Waste	0	0	0	0.0%	0	0	0	0.0%
Auto Bodies	1	0	1	0.0%	1	0	1	0.0%
Stuffed Furn./Mattresses	129	0	129	0.0%	131	0	131	0.0%
Subtotal	**166**	**0**	**166**	**0.0%**	**168**	**0**	**168**	**0.0%**
Total Waste	**7,321**	**190**	**7,511**	**2.5%**	**7,394**	**192**	**7,586**	**2.5%**

15 YEAR WASTE GENERATION PROJECTIONS - City of Farmersville

Existing Conditions

WASTE TYPE	2003				2004			
	Disposal	Diversion	Generation	Diversion Percent	Disposal	Diversion	Generation	Diversion Percent
:r								
OCC/Kraft	615	35	650	5.4%	621	36	656	5.4%
Magazines	71	0	71	0.0%	71	0	71	0.0%
Mixed Paper	576	0	576	0.0%	582	0	582	0.0%
Newspaper	333	0	333	0.0%	337	0	337	0.0%
High Grade	93	0	93	0.0%	94	0	94	0.0%
Other Paper	388	0	388	0.0%	392	0	392	0.0%
Subtotal	**2,076**	**35**	**2,111**	**1.7%**	**2,097**	**36**	**2,132**	**1.7%**
:ic								
HDPE	61	0	61	0.0%	62	0	62	0.0%
PET	17	5	22	21.1%	17	5	22	21.1%
Film Plastics	217	0	217	0.0%	220	0	220	0.0%
Polystyrene	44	0	44	0.0%	45	0	45	0.0%
Other Plastic	183	0	183	0.0%	185	0	185	0.0%
Subtotal	**524**	**5**	**528**	**0.9%**	**529**	**5**	**533**	**0.9%**
s								
Refillable Beverage	5	0	5	0.0%	5	0	5	0.0%
CA Redemption Value	75	34	109	31.3%	76	34	110	31.3%
Other Recyclable	124	11	135	8.4%	125	11	137	8.4%
Other Non-recyclable	38	0	38	0.0%	38	0	38	0.0%
Subtotal	**241**	**46**	**287**	**15.9%**	**244**	**46**	**290**	**15.9%**
ıls								
Aluminum Cans	16	53	69	77.0%	16	54	70	77.0%
Other Aluminum	17	9	26	34.8%	17	9	26	34.8%
Bi-metal Cans	9	0	9	0.0%	9	0	9	0.0%
Steel Food & Bev. Cans	107	34	141	24.2%	108	34	143	24.2%
Other Ferrous	232	0	232	0.0%	234	0	234	0.0%
Other Non-ferrous	5	0	5	0.0%	5	0	5	0.0%
White Goods	19	0	19	0.0%	20	0	20	0.0%
Subtotal	**405**	**97**	**502**	**19.3%**	**409**	**98**	**507**	**19.3%**
Waste								
Leaves and Grass	785	0	785	0.0%	793	0	793	0.0%
Branches and Brush	708	0	708	0.0%	715	0	715	0.0%
Subtotal	**1,493**	**0**	**1,493**	**0.0%**	**1,508**	**0**	**1,508**	**0.0%**
ınics								
Food	634	0	634	0.0%	640	0	640	0.0%
Rubber/Tires	80	11	91	12.5%	80	11	92	12.5%
Wood	539	0	539	0.0%	545	0	545	0.0%
Agri. Crop Residue	38	0	38	0.0%	38	0	38	0.0%
Manure	20	0	20	0.0%	21	0	21	0.0%
Textiles/Leather	266	0	266	0.0%	269	0	269	0.0%
Diapers	198	0	198	0.0%	200	0	200	0.0%
Other Organics	126	0	126	0.0%	128	0	128	0.0%
Subtotal	**1,902**	**11**	**1,913**	**0.6%**	**1,921**	**11**	**1,932**	**0.6%**
r Wastes								
nert Solids	596	0	596	0.0%	602	0	602	0.0%
Hazardous Waste	30	0	30	0.0%	30	0	30	0.0%
Appliances	32	0	32	0.0%	32	0	32	0.0%
Subtotal	**658**	**0**	**658**	**0.0%**	**664**	**0**	**664**	**0.0%**
Ash	36	0	36	0.0%	37	0	37	0.0%
Sewage Sludge	0	0	0	0.0%	0	0	0	0.0%
ndustrial Sludge	0	0	0	0.0%	0	0	0	0.0%
Asbestos	0	0	0	0.0%	0	0	0	0.0%
Auto Shredder Waste	0	0	0	0.0%	0	0	0	0.0%
Auto Bodies	1	0	1	0.0%	1	0	1	0.0%
Stuffed Furn./Mattresses	132	0	132	0.0%	133	0	133	0.0%
Subtotal	**170**	**0**	**170**	**0.0%**	**171**	**0**	**171**	**0.0%**
Total Waste	**7,468**	**193**	**7,662**	**2.5%**	**7,543**	**195**	**7,738**	**2.5%**

15 YEAR WASTE GENERATION PROJECTIONS
City of Farmersville - Existing Conditions

WASTE TYPE	2005			
	Disposal	Diversion	Generation	Diversion Percent
Paper				
OCC/Kraft	627	36	663	5.4%
Magazines	72	0	72	0.0%
Mixed Paper	587	0	587	0.0%
Newspaper	340	0	340	0.0%
High Grade	95	0	95	0.0%
Other Paper	396	0	396	0.0%
Subtotal	**2,118**	**36**	**2,154**	**1.7%**
Plastic				
HDPE	63	0	63	0.0%
PET	17	5	22	21.1%
Film Plastics	222	0	222	0.0%
Polystyrene	45	0	45	0.0%
Other Plastic	187	0	187	0.0%
Subtotal	**534**	**5**	**539**	**0.9%**
Glass				
Refillable Beverage	5	0	5	0.0%
CA Redemption Value	77	35	111	31.3%
Other Recyclable	127	12	138	8.4%
Other Non-recyclable	38	0	38	0.0%
Subtotal	**246**	**46**	**293**	**15.9%**
Metals				
Aluminum Cans	16	55	71	77.0%
Other Aluminum	17	9	27	34.8%
Bi-metal Cans	9	0	9	0.0%
Steel Food & Bev. Cans	109	35	144	24.2%
Other Ferrous	237	0	237	0.0%
Other Non-ferrous	5	0	5	0.0%
White Goods	20	0	20	0.0%
Subtotal	**413**	**99**	**512**	**19.3%**
Yard Waste				
Leaves and Grass	801	0	801	0.0%
Branches and Brush	722	0	722	0.0%
Subtotal	**1,523**	**0**	**1,523**	**0.0%**
Organics				
Food	647	0	647	0.0%
Rubber/Tires	81	12	93	12.5%
Wood	550	0	550	0.0%
Agri. Crop Residue	38	0	38	0.0%
Manure	21	0	21	0.0%
Textiles/Leather	272	0	272	0.0%
Diapers	202	0	202	0.0%
Other Organics	129	0	129	0.0%
Subtotal	**1,940**	**12**	**1,952**	**0.6%**
Other Wastes				
Inert Solids	608	0	608	0.0%
Hazardous Waste	30	0	30	0.0%
Appliances	33	0	33	0.0%
Subtotal	**671**	**0**	**671**	**0.0%**
Ash	37	0	37	0.0%
Sewage Sludge	0	0	0	0.0%
Industrial Sludge	0	0	0	0.0%
Asbestos	0	0	0	0.0%
Auto Shredder Waste	0	0	0	0.0%
Auto Bodies	1	0	1	0.0%
Stuffed Furn./Mattresses	135	0	135	0.0%
Subtotal	**173**	**0**	**173**	**0.0%**
Total Waste	**7,618**	**197**	**7,816**	**2.5%**

15 YEAR WASTE GENERATION PROJECTIONS - City of Farmersville

With Program Implementation

WASTE TYPE	1991				1992			
	Disposal	Diversion	Generation	Diversion Percent	Disposal	Diversion	Generation	Diversion Percent
ıer								
OCC/Kraft	545	31	577	5.4%	551	32	582	5.4%
Magazines	63	0	63	0.0%	63	0	63	0.0%
Mixed Paper	511	0	511	0.0%	516	0	516	0.0%
Newspaper	296	0	296	0.0%	299	0	299	0.0%
High Grade	83	0	83	0.0%	84	0	84	0.0%
Other Paper	344	0	344	0.0%	348	0	348	0.0%
Subtotal	**1,842**	**31**	**1,874**	**1.7%**	**1,861**	**32**	**1,892**	**1.7%**
;tic								
HDPE	55	0	55	0.0%	55	0	55	0.0%
PET	15	4	19	21.1%	15	4	19	21.1%
Film Plastics	193	0	193	0.0%	195	0	195	0.0%
Polystyrene	39	0	39	0.0%	40	0	40	0.0%
Other Plastic	163	0	163	0.0%	164	0	164	0.0%
Subtotal	**465**	**4**	**469**	**0.9%**	**469**	**4**	**473**	**0.9%**
ss								
Refillable Beverage	4	0	4	0.0%	4	0	4	0.0%
CA Redemption Value	67	30	97	31.3%	67	31	98	31.3%
Other Recyclable	110	10	120	8.4%	111	10	121	8.4%
Other Non-recyclable	33	0	33	0.0%	34	0	34	0.0%
Subtotal	**214**	**40**	**255**	**15.9%**	**216**	**41**	**257**	**15.9%**
als								
Aluminum Cans	14	47	62	77.0%	14	48	62	77.0%
Other Aluminum	15	8	23	34.8%	15	8	23	34.8%
Bi-metal Cans	8	0	8	0.0%	8	0	8	0.0%
Steel Food & Bev. Cans	95	30	125	24.2%	96	31	126	24.2%
Other Ferrous	206	0	206	0.0%	208	0	208	0.0%
Other Non-ferrous	4	0	4	0.0%	4	0	4	0.0%
White Goods	17	0	17	0.0%	17	0	17	0.0%
Subtotal	**360**	**86**	**445**	**19.3%**	**363**	**87**	**450**	**19.3%**
l Waste								
Leaves and Grass	697	0	697	0.0%	704	0	704	0.0%
Branches and Brush	628	0	628	0.0%	635	0	635	0.0%
Subtotal	**1,325**	**0**	**1,325**	**0.0%**	**1,338**	**0**	**1,338**	**0.0%**
anics								
Food	563	0	563	0.0%	568	0	568	0.0%
Rubber/Tires	71	10	81	12.5%	71	10	82	12.5%
Wood	479	0	479	0.0%	484	0	484	0.0%
Agri. Crop Residue	33	0	33	0.0%	34	0	34	0.0%
Manure	18	0	18	0.0%	18	0	18	0.0%
Textiles/Leather	236	0	236	0.0%	239	0	239	0.0%
Diapers	176	0	176	0.0%	177	0	177	0.0%
Other Organics	112	0	112	0.0%	113	0	113	0.0%
Subtotal	**1,688**	**10**	**1,698**	**0.6%**	**1,705**	**10**	**1,715**	**0.6%**
r Wastes								
Inert Solids	529	0	529	0.0%	535	0	535	0.0%
Hazardous Waste	26	0	26	0.0%	27	0	27	0.0%
Appliances	28	0	28	0.0%	29	0	29	0.0%
Subtotal	**584**	**0**	**584**	**0.0%**	**590**	**0**	**590**	**0.0%**
Ash	32	0	32	0.0%	33	0	33	0.0%
Sewage Sludge	0	0	0	0.0%	0	0	0	0.0%
ndustrial Sludge	0	0	0	0.0%	0	0	0	0.0%
Asbestos	0	0	0	0.0%	0	0	0	0.0%
Auto Shredder Waste	0	0	0	0.0%	0	0	0	0.0%
Auto Bodies	1	0	1	0.0%	1	0	1	0.0%
Stuffed Furn./Mattresses	117	0	117	0.0%	118	0	118	0.0%
Subtotal	**150**	**0**	**150**	**0.0%**	**152**	**0**	**152**	**0.0%**
Total Waste	**6,628**	**172**	**6,799**	**2.5%**	**6,694**	**173**	**6,867**	**2.5%**

15 YEAR WASTE GENERATION PROJECTIONS - City of Farmersville

With Program Implementation

WASTE TYPE	1993				1994			
	Disposal	Diversion	Generation	Diversion Percent	Disposal	Diversion	Generation	Diversion Percent
Paper								
OCC/Kraft	556	32	588	5.4%	562	32	594	5.4%
Magazines	64	0	64	0.0%	65	0	65	0.0%
Mixed Paper	521	0	521	0.0%	527	0	527	0.0%
Newspaper	302	0	302	0.0%	305	0	305	0.0%
High Grade	84	0	84	0.0%	85	0	85	0.0%
Other Paper	351	0	351	0.0%	355	0	355	0.0%
Subtotal	**1,879**	**32**	**1,911**	**1.7%**	**1,898**	**32**	**1,930**	**1.7%**
Plastic								
HDPE	56	0	56	0.0%	56	0	56	0.0%
PET	15	4	20	21.1%	16	4	20	21.1%
Film Plastics	197	0	197	0.0%	199	0	199	0.0%
Polystyrene	40	0	40	0.0%	41	0	41	0.0%
Other Plastic	166	0	166	0.0%	168	0	168	0.0%
Subtotal	**474**	**4**	**478**	**0.9%**	**479**	**4**	**483**	**0.9%**
Glass								
Refillable Beverage	4	0	4	0.0%	4	0	4	0.0%
CA Redemption Value	68	31	99	31.3%	69	31	100	31.3%
Other Recyclable	112	10	123	8.4%	113	10	124	8.4%
Other Non-recyclable	34	0	34	0.0%	34	0	34	0.0%
Subtotal	**218**	**41**	**260**	**15.9%**	**221**	**42**	**262**	**15.9%**
Metals								
Aluminum Cans	14	48	63	77.0%	15	49	63	77.0%
Other Aluminum	15	8	24	34.8%	16	8	24	34.8%
Bi-metal Cans	8	0	8	0.0%	8	0	8	0.0%
Steel Food & Bev. Cans	97	31	128	24.2%	98	31	129	24.2%
Other Ferrous	210	0	210	0.0%	212	0	212	0.0%
Other Non-ferrous	4	0	4	0.0%	4	0	4	0.0%
White Goods	18	0	18	0.0%	18	0	18	0.0%
Subtotal	**367**	**88**	**454**	**19.3%**	**370**	**88**	**459**	**19.3%**
Yard Waste								
Leaves and Grass	711	0	711	0.0%	718	0	718	0.0%
Branches and Brush	641	0	641	0.0%	647	0	647	0.0%
Subtotal	**1,352**	**0**	**1,352**	**0.0%**	**1,365**	**0**	**1,365**	**0.0%**
Organics								
Food	574	0	574	0.0%	580	0	580	0.0%
Rubber/Tires	72	10	82	12.5%	73	10	83	12.5%
Wood	488	0	488	0.0%	493	0	493	0.0%
Agri. Crop Residue	34	0	34	0.0%	34	0	34	0.0%
Manure	19	0	19	0.0%	19	0	19	0.0%
Textiles/Leather	241	0	241	0.0%	244	0	244	0.0%
Diapers	179	0	179	0.0%	181	0	181	0.0%
Other Organics	114	0	114	0.0%	116	0	116	0.0%
Subtotal	**1,722**	**10**	**1,732**	**0.6%**	**1,739**	**10**	**1,749**	**0.6%**
Other Wastes								
Inert Solids	540	0	540	0.0%	545	0	545	0.0%
Hazardous Waste	27	0	27	0.0%	27	0	27	0.0%
Appliances	29	0	29	0.0%	29	0	29	0.0%
Subtotal	**596**	**0**	**596**	**0.0%**	**601**	**0**	**601**	**0.0%**
Ash	33	0	33	0.0%	33	0	33	0.0%
Sewage Sludge	0	0	0	0.0%	0	0	0	0.0%
Industrial Sludge	0	0	0	0.0%	0	0	0	0.0%
Asbestos	0	0	0	0.0%	0	0	0	0.0%
Auto Shredder Waste	0	0	0	0.0%	0	0	0	0.0%
Auto Bodies	1	0	1	0.0%	1	0	1	0.0%
Stuffed Furn./Mattresses	120	0	120	0.0%	121	0	121	0.0%
Subtotal	**154**	**0**	**154**	**0.0%**	**155**	**0**	**155**	**0.0%**
Total Waste	6,761	175	6,936	2.5%	6,828	177	7,005	2.5%

15 YEAR WASTE GENERATION PROJECTIONS - City of Farmersville

With Program Implementation

WASTE TYPE	1995 Disposal	1995 Diversion	1995 Generation	1995 Diversion Percent	1996 Disposal	1996 Diversion	1996 Generation	1996 Diversion Percent
ıer								
OCC/Kraft	568	33	600	5.4%	573	33	606	5.4%
Magazines	65	0	65	0.0%	66	0	66	0.0%
Mixed Paper	532	0	532	0.0%	537	0	537	0.0%
Newspaper	273	35	308	11.4%	276	35	311	11.4%
High Grade	86	0	86	0.0%	87	0	87	0.0%
Other Paper	358	0	358	0.0%	362	0	362	0.0%
Subtotal	**1,882**	**68**	**1,950**	**3.5%**	**1,901**	**68**	**1,969**	**3.5%**
ıtic								
HDPE	57	0	57	0.0%	57	0	57	0.0%
PET	12	8	20	41.1%	12	8	20	41.1%
Film Plastics	201	0	201	0.0%	203	0	203	0.0%
Polystyrene	41	0	41	0.0%	41	0	41	0.0%
Other Plastic	169	0	169	0.0%	171	0	171	0.0%
Subtotal	**479**	**8**	**488**	**1.7%**	**484**	**8**	**493**	**1.7%**
ss								
Refillable Beverage	4	0	4	0.0%	4	0	4	0.0%
CA Redemption Value	32	69	101	67.9%	33	69	102	67.9%
Other Recyclable	93	33	125	26.0%	93	33	126	26.0%
Other Non-recyclable	35	0	35	0.0%	35	0	35	0.0%
Subtotal	**164**	**101**	**265**	**38.1%**	**165**	**102**	**268**	**38.1%**
tals								
Aluminum Cans	10	54	64	84.8%	10	55	65	84.8%
Other Aluminum	16	8	24	34.8%	16	8	24	34.8%
Bi-metal Cans	8	0	8	0.0%	8	0	8	0.0%
Steel Food & Bev. Cans	99	32	130	24.2%	100	32	132	24.2%
Other Ferrous	214	0	214	0.0%	217	0	217	0.0%
Other Non-ferrous	4	0	4	0.0%	4	0	4	0.0%
White Goods	18	0	18	0.0%	18	0	18	0.0%
Subtotal	**369**	**94**	**463**	**20.4%**	**373**	**95**	**468**	**20.4%**
d Waste								
Leaves and Grass	440	285	725	39.3%	445	288	732	39.3%
Branches and Brush	369	285	654	43.6%	372	288	660	43.6%
Subtotal	**809**	**570**	**1,379**	**41.3%**	**817**	**576**	**1,393**	**41.3%**
anics								
Food	585	0	585	0.0%	591	0	591	0.0%
Rubber/Tires	74	11	84	12.5%	74	11	85	12.5%
Wood	498	0	498	0.0%	503	0	503	0.0%
Agri. Crop Residue	35	0	35	0.0%	35	0	35	0.0%
Manure	19	0	19	0.0%	19	0	19	0.0%
Textiles/Leather	246	0	246	0.0%	248	0	248	0.0%
Diapers	183	0	183	0.0%	185	0	185	0.0%
Other Organics	117	0	117	0.0%	118	0	118	0.0%
Subtotal	**1,756**	**11**	**1,767**	**0.6%**	**1,774**	**11**	**1,784**	**0.6%**
er Wastes								
Inert Solids	551	0	551	0.0%	556	0	556	0.0%
Hazardous Waste	27	0	27	0.0%	28	0	28	0.0%
Appliances	29	0	29	0.0%	30	0	30	0.0%
Subtotal	**607**	**0**	**607**	**0.0%**	**614**	**0**	**614**	**0.0%**
Ash	34	0	34	0.0%	34	0	34	0.0%
Sewage Sludge	0	0	0	0.0%	0	0	0	0.0%
Industrial Sludge	0	0	0	0.0%	0	0	0	0.0%
Asbestos	0	0	0	0.0%	0	0	0	0.0%
Auto Shredder Waste	0	0	0	0.0%	0	0	0	0.0%
Auto Bodies	1	0	1	0.0%	1	0	1	0.0%
Stuffed Furn./Mattresses	122	0	122	0.0%	123	0	123	0.0%
Subtotal	**157**	**0**	**157**	**0.0%**	**158**	**0**	**158**	**0.0%**
Total Waste	**6,224**	**852**	**7,075**	**12.0%**	**6,286**	**860**	**7,146**	**12.0%**

15 YEAR WASTE GENERATION PROJECTIONS - City of Farmersville

With Program Implementation

WASTE TYPE	1997				1998			
	Disposal	Diversion	Generation	Diversion Percent	Disposal	Diversion	Generation	Diversion Percent
Paper								
OCC/Kraft	579	33	612	5.4%	585	34	618	5.4%
Magazines	66	0	66	0.0%	67	0	67	0.0%
Mixed Paper	543	0	543	0.0%	548	0	548	0.0%
Newspaper	278	36	314	11.4%	281	36	317	11.4%
High Grade	88	0	88	0.0%	89	0	89	0.0%
Other Paper	366	0	366	0.0%	369	0	369	0.0%
Subtotal	**1,920**	**69**	**1,989**	**3.5%**	**1,939**	**70**	**2,009**	**3.5%**
Plastic								
HDPE	58	0	58	0.0%	58	0	58	0.0%
PET	12	8	20	41.1%	12	8	21	41.1%
Film Plastics	205	0	205	0.0%	207	0	207	0.0%
Polystyrene	42	0	42	0.0%	42	0	42	0.0%
Other Plastic	173	0	173	0.0%	174	0	174	0.0%
Subtotal	**489**	**8**	**497**	**1.7%**	**494**	**8**	**502**	**1.7%**
Glass								
Refillable Beverage	4	0	4	0.0%	4	0	4	0.0%
CA Redemption Value	33	70	103	67.9%	33	71	104	67.9%
Other Recyclable	94	33	128	26.0%	95	33	129	26.0%
Other Non-recyclable	35	0	35	0.0%	36	0	36	0.0%
Subtotal	**167**	**103**	**270**	**38.1%**	**169**	**104**	**273**	**38.1%**
Metals								
Aluminum Cans	10	55	65	84.8%	10	56	66	84.8%
Other Aluminum	16	9	25	34.8%	16	9	25	34.8%
Bi-metal Cans	9	0	9	0.0%	9	0	9	0.0%
Steel Food & Bev. Cans	101	32	133	24.2%	102	32	134	24.2%
Other Ferrous	219	0	219	0.0%	221	0	221	0.0%
Other Non-ferrous	4	0	4	0.0%	4	0	4	0.0%
White Goods	18	0	18	0.0%	18	0	18	0.0%
Subtotal	**377**	**96**	**473**	**20.4%**	**380**	**97**	**478**	**20.4%**
Yard Waste								
Leaves and Grass	449	291	740	39.3%	454	294	747	39.3%
Branches and Brush	376	291	667	43.6%	380	294	674	43.6%
Subtotal	**825**	**581**	**1,407**	**41.3%**	**833**	**587**	**1,421**	**41.3%**
Organics								
Food	597	0	597	0.0%	603	0	603	0.0%
Rubber/Tires	75	11	86	12.5%	76	11	87	12.5%
Wood	508	0	508	0.0%	513	0	513	0.0%
Agri. Crop Residue	35	0	35	0.0%	36	0	36	0.0%
Manure	19	0	19	0.0%	19	0	19	0.0%
Textiles/Leather	251	0	251	0.0%	253	0	253	0.0%
Diapers	187	0	187	0.0%	188	0	188	0.0%
Other Organics	119	0	119	0.0%	120	0	120	0.0%
Subtotal	**1,792**	**11**	**1,802**	**0.6%**	**1,809**	**11**	**1,820**	**0.6%**
Other Wastes								
Inert Solids	562	0	562	0.0%	567	0	567	0.0%
Hazardous Waste	28	0	28	0.0%	28	0	28	0.0%
Appliances	30	0	30	0.0%	30	0	30	0.0%
Subtotal	**620**	**0**	**620**	**0.0%**	**626**	**0**	**626**	**0.0%**
Ash	34	0	34	0.0%	35	0	35	0.0%
Sewage Sludge	0	0	0	0.0%	0	0	0	0.0%
Industrial Sludge	0	0	0	0.0%	0	0	0	0.0%
Asbestos	0	0	0	0.0%	0	0	0	0.0%
Auto Shredder Waste	0	0	0	0.0%	0	0	0	0.0%
Auto Bodies	1	0	1	0.0%	1	0	1	0.0%
Stuffed Furn./Mattresses	124	0	124	0.0%	126	0	126	0.0%
Subtotal	**160**	**0**	**160**	**0.0%**	**161**	**0**	**161**	**0.0%**
Total Waste	**6,349**	**869**	**7,218**	**12.0%**	**6,412**	**877**	**7,290**	**12.0%**

15 YEAR WASTE GENERATION PROJECTIONS - City of Farmersville

With Program Implementation

WASTE TYPE	1999				2000			
	Disposal	Diversion	Generation	Diversion Percent	Disposal	Diversion	Generation	Diversion Percent
per								
OCC/Kraft	591	34	624	5.4%	160	470	630	74.6%
Magazines	68	0	68	0.0%	49	20	69	29.0%
Mixed Paper	553	0	553	0.0%	398	161	559	28.8%
Newspaper	284	36	320	11.4%	99	224	323	69.3%
High Grade	90	0	90	0.0%	28	63	91	69.2%
Other Paper	373	0	373	0.0%	269	109	378	28.8%
Subtotal	**1,958**	**70**	**2,029**	**3.5%**	**1,003**	**1,047**	**2,050**	**51.1%**
stic								
HDPE	59	0	59	0.0%	18	42	60	70.0%
PET	12	9	21	41.1%	2	19	21	90.5%
Film Plastics	209	0	209	0.0%	150	61	211	28.9%
Polystyrene	43	0	43	0.0%	30	13	43	30.2%
Other Plastic	176	0	176	0.0%	127	51	178	28.7%
Subtotal	**499**	**9**	**507**	**1.7%**	**327**	**186**	**513**	**36.3%**
ss								
Refillable Beverage	4	0	4	0.0%	4	0	4	0.0%
CA Redemption Value	34	71	105	67.9%	11	96	107	89.7%
Other Recyclable	96	34	130	26.0%	30	102	132	77.3%
Other Non-recyclable	36	0	36	0.0%	36	0	36	0.0%
Subtotal	**170**	**105**	**276**	**38.1%**	**81**	**198**	**279**	**71.0%**
als								
Aluminum Cans	10	57	67	84.8%	7	60	67	89.6%
Other Aluminum	16	9	25	34.8%	2	22	24	91.7%
Bi-metal Cans	9	0	9	0.0%	6	2	8	25.0%
Steel Food & Bev. Cans	103	33	136	24.2%	65	72	137	52.6%
Other Ferrous	223	0	223	0.0%	69	156	225	69.3%
Other Non-ferrous	4	0	4	0.0%	3	1	4	25.0%
White Goods	19	0	19	0.0%	6	13	19	68.4%
Subtotal	**384**	**98**	**482**	**20.4%**	**158**	**326**	**484**	**67.4%**
d Waste								
Leaves and Grass	458	297	755	39.3%	234	528	762	69.3%
Branches and Brush	384	297	680	43.6%	211	476	687	69.3%
Subtotal	**842**	**593**	**1,435**	**41.3%**	**445**	**1,004**	**1,449**	**69.3%**
anics								
Food	609	0	609	0.0%	438	177	615	28.8%
Rubber/Tires	77	11	87	12.5%	77	11	88	12.5%
Wood	518	0	518	0.0%	161	363	524	69.3%
Agri. Crop Residue	36	0	36	0.0%	36	0	36	0.0%
Manure	20	0	20	0.0%	20	0	20	0.0%
Textiles/Leather	256	0	256	0.0%	258	0	258	0.0%
Diapers	190	0	190	0.0%	193	0	193	0.0%
Other Organics	121	0	121	0.0%	123	0	123	0.0%
Subtotal	**1,828**	**11**	**1,838**	**0.6%**	**1,306**	**551**	**1,857**	**29.7%**
r Wastes								
nert Solids	573	0	573	0.0%	177	403	580	69.5%
Hazardous Waste	28	0	28	0.0%	29	0	29	0.0%
Appliances	31	0	31	0.0%	31	0	31	0.0%
Subtotal	**632**	**0**	**632**	**0.0%**	**237**	**403**	**640**	**63.0%**
ash	35	0	35	0.0%	35	0	35	0.0%
ewage Sludge	0	0	0	0.0%	0	0	0	0.0%
ndustrial Sludge	0	0	0	0.0%	0	0	0	0.0%
sbestos	0	0	0	0.0%	0	0	0	0.0%
uto Shredder Waste	0	0	0	0.0%	0	0	0	0.0%
uto Bodies	1	0	1	0.0%	1	0	1	0.0%
tuffed Furn./Mattresses	127	0	127	0.0%	129	0	129	0.0%
Subtotal	**163**	**0**	**163**	**0.0%**	**165**	**0**	**165**	**0.0%**
Total Waste	**6,476**	**886**	**7,363**	**12.0%**	**3,722**	**3,715**	**7,437**	**50.0%**

15 YEAR WASTE GENERATION PROJECTIONS - City of Farmersville

With Program Implementation

WASTE TYPE	2001				2002			
	Disposal	Diversion	Generation	Diversion Percent	Disposal	Diversion	Generation	Diversion Percent
Paper								
OCC/Kraft	162	475	636	74.6%	163	479	643	74.6%
Magazines	49	20	70	29.0%	50	20	70	29.0%
Mixed Paper	402	163	565	28.8%	406	164	570	28.8%
Newspaper	100	226	326	69.3%	101	229	329	69.3%
High Grade	28	64	92	69.2%	29	64	93	69.2%
Other Paper	272	110	382	28.8%	274	111	386	28.8%
Subtotal	**1,013**	**1,057**	**2,071**	**51.1%**	**1,023**	**1,068**	**2,091**	**51.1%**
Plastic								
HDPE	18	42	61	70.0%	18	43	61	70.0%
PET	2	19	21	90.5%	2	19	21	90.5%
Film Plastics	152	62	213	28.9%	153	62	215	28.9%
Polystyrene	30	13	43	30.2%	31	13	44	30.2%
Other Plastic	128	52	180	28.7%	130	52	182	28.7%
Subtotal	**330**	**188**	**518**	**36.3%**	**334**	**190**	**523**	**36.3%**
Glass								
Refillable Beverage	4	0	4	0.0%	4	0	4	0.0%
CA Redemption Value	11	97	108	89.7%	11	98	109	89.7%
Other Recyclable	30	103	133	77.3%	31	104	135	77.3%
Other Non-recyclable	36	0	36	0.0%	37	0	37	0.0%
Subtotal	**82**	**200**	**282**	**71.0%**	**83**	**202**	**285**	**71.0%**
Metals								
Aluminum Cans	7	61	68	89.6%	7	61	68	89.6%
Other Aluminum	2	22	24	91.7%	2	22	24	91.7%
Bi-metal Cans	6	2	8	25.0%	6	2	8	25.0%
Steel Food & Bev. Cans	66	73	138	52.6%	66	73	140	52.6%
Other Ferrous	70	158	227	69.3%	70	159	230	69.3%
Other Non-ferrous	3	1	4	25.0%	3	1	4	25.0%
White Goods	6	13	19	68.4%	6	13	19	68.4%
Subtotal	**160**	**329**	**489**	**67.4%**	**161**	**333**	**494**	**67.4%**
Yard Waste								
Leaves and Grass	236	533	770	69.3%	239	539	777	69.3%
Branches and Brush	213	481	694	69.3%	215	486	701	69.3%
Subtotal	**449**	**1,014**	**1,463**	**69.3%**	**454**	**1,024**	**1,478**	**69.3%**
Organics								
Food	442	179	621	28.8%	447	181	627	28.8%
Rubber/Tires	78	11	89	12.5%	79	11	90	12.5%
Wood	163	367	529	69.3%	164	370	535	69.3%
Agri. Crop Residue	36	0	36	0.0%	37	0	37	0.0%
Manure	20	0	20	0.0%	20	0	20	0.0%
Textiles/Leather	261	0	261	0.0%	263	0	263	0.0%
Diapers	195	0	195	0.0%	197	0	197	0.0%
Other Organics	124	0	124	0.0%	125	0	125	0.0%
Subtotal	**1,319**	**557**	**1,876**	**29.7%**	**1,332**	**562**	**1,894**	**29.7%**
Other Wastes								
Inert Solids	179	407	586	69.5%	181	411	592	69.5%
Hazardous Waste	29	0	29	0.0%	30	0	30	0.0%
Appliances	31	0	31	0.0%	32	0	32	0.0%
Subtotal	**239**	**407**	**646**	**63.0%**	**242**	**411**	**653**	**63.0%**
Ash	35	0	35	0.0%	36	0	36	0.0%
Sewage Sludge	0	0	0	0.0%	0	0	0	0.0%
Industrial Sludge	0	0	0	0.0%	0	0	0	0.0%
Asbestos	0	0	0	0.0%	0	0	0	0.0%
Auto Shredder Waste	0	0	0	0.0%	0	0	0	0.0%
Auto Bodies	1	0	1	0.0%	1	0	1	0.0%
Stuffed Furn./Mattresses	130	0	130	0.0%	132	0	132	0.0%
Subtotal	**167**	**0**	**167**	**0.0%**	**168**	**0**	**168**	**0.0%**
Total Waste	**3,759**	**3,752**	**7,511**	**50.0%**	**3,797**	**3,790**	**7,586**	**50.0%**

15 YEAR WASTE GENERATION PROJECTIONS - City of Farmersville

With Program Implementation

WASTE TYPE	2003				2004			
	Disposal	Diversion	Generation	Diversion Percent	Disposal	Diversion	Generation	Diversion Percent
ıer								
OCC/Kraft	165	484	649	74.6%	166	489	656	74.6%
Magazines	50	21	71	29.0%	51	21	72	29.0%
Mixed Paper	410	166	576	28.8%	414	168	582	28.8%
Newspaper	102	231	333	69.3%	103	233	336	69.3%
High Grade	29	65	94	69.2%	29	66	95	69.2%
Other Paper	277	112	389	28.8%	280	113	393	28.8%
Subtotal	**1,033**	**1,079**	**2,112**	**51.1%**	**1,044**	**1,090**	**2,133**	**51.1%**
ıtic								
HDPE	19	43	62	70.0%	19	44	62	70.0%
PET	2	20	22	90.5%	2	20	22	90.5%
Film Plastics	155	63	217	28.9%	156	63	220	28.9%
Polystyrene	31	13	44	30.2%	31	14	45	30.2%
Other Plastic	131	53	183	28.7%	132	53	185	28.7%
Subtotal	**337**	**192**	**529**	**36.3%**	**340**	**194**	**534**	**36.3%**
ıs								
Refillable Beverage	4	0	4	0.0%	4	0	4	0.0%
CA Redemption Value	11	99	110	89.7%	11	100	111	89.7%
Other Recyclable	31	105	136	77.3%	31	106	137	77.3%
Other Non-recyclable	37	0	37	0.0%	37	0	37	0.0%
Subtotal	**83**	**204**	**287**	**71.0%**	**84**	**206**	**290**	**71.0%**
ıls								
Aluminum Cans	7	62	69	89.6%	7	62	70	89.6%
Other Aluminum	2	23	25	91.7%	2	23	25	91.7%
Bi-metal Cans	6	2	8	25.0%	6	2	8	25.0%
Steel Food & Bev. Cans	67	74	141	52.6%	68	75	143	52.6%
Other Ferrous	71	161	232	69.3%	72	162	234	69.3%
Other Non-ferrous	3	1	4	25.0%	3	1	4	25.0%
White Goods	6	13	20	68.4%	6	14	20	68.4%
Subtotal	**163**	**336**	**499**	**67.4%**	**164**	**339**	**504**	**67.4%**
l Waste								
Leaves and Grass	241	544	785	69.3%	244	549	793	69.3%
Branches and Brush	217	490	708	69.3%	220	495	715	69.3%
Subtotal	**458**	**1,034**	**1,493**	**69.3%**	**463**	**1,045**	**1,508**	**69.3%**
ınics								
Food	451	182	634	28.8%	456	184	640	28.8%
Rubber/Tires	79	11	91	12.5%	80	11	92	12.5%
Wood	166	374	540	69.3%	168	378	545	69.3%
Agri. Crop Residue	37	0	37	0.0%	37	0	37	0.0%
Manure	21	0	21	0.0%	21	0	21	0.0%
Textiles/Leather	266	0	266	0.0%	268	0	268	0.0%
Diapers	199	0	199	0.0%	201	0	201	0.0%
Other Organics	127	0	127	0.0%	128	0	128	0.0%
Subtotal	**1,346**	**568**	**1,913**	**29.7%**	**1,359**	**573**	**1,932**	**29.7%**
r Wastes								
nert Solids	182	415	598	69.5%	184	419	604	69.5%
Hazardous Waste	30	0	30	0.0%	30	0	30	0.0%
Appliances	32	0	32	0.0%	32	0	32	0.0%
Subtotal	**244**	**415**	**659**	**63.0%**	**247**	**419**	**666**	**63.0%**
Ash	36	0	36	0.0%	36	0	36	0.0%
Sewage Sludge	0	0	0	0.0%	0	0	0	0.0%
ndustrial Sludge	0	0	0	0.0%	0	0	0	0.0%
Asbestos	0	0	0	0.0%	0	0	0	0.0%
Auto Shredder Waste	0	0	0	0.0%	0	0	0	0.0%
Auto Bodies	1	0	1	0.0%	1	0	1	0.0%
Stuffed Furn./Mattresses	133	0	133	0.0%	134	0	134	0.0%
Subtotal	**170**	**0**	**170**	**0.0%**	**172**	**0**	**172**	**0.0%**
Total Waste	**3,835**	**3,828**	**7,662**	**50.0%**	**3,873**	**3,866**	**7,739**	**50.0%**

15 YEAR WASTE GENERATION PROJECTIONS
City of Farmersville-With Program Implementation

WASTE TYPE	2005			
	Disposal	Diversion	Generation	Diversion Percent
Paper				
OCC/Kraft	168	494	662	74.6%
Magazines	51	21	73	29.0%
Mixed Paper	418	169	588	28.8%
Newspaper	104	235	339	69.3%
High Grade	29	66	96	69.2%
Other Paper	283	115	397	28.8%
Subtotal	**1,054**	**1,100**	**2,155**	**51.1%**
Plastic				
HDPE	19	44	63	70.0%
PET	2	20	22	90.5%
Film Plastics	158	64	222	28.9%
Polystyrene	32	14	45	30.2%
Other Plastic	133	54	187	28.7%
Subtotal	**344**	**195**	**539**	**36.3%**
Glass				
Refillable Beverage	4	0	4	0.0%
CA Redemption Value	12	101	112	89.7%
Other Recyclable	32	107	139	77.3%
Other Non-recyclable	38	0	38	0.0%
Subtotal	**85**	**208**	**293**	**71.0%**
Metals				
Aluminum Cans	7	63	70	89.6%
Other Aluminum	2	23	25	91.7%
Bi-metal Cans	6	2	8	25.0%
Steel Food & Bev. Cans	68	76	144	52.6%
Other Ferrous	73	164	236	69.3%
Other Non-ferrous	3	1	4	25.0%
White Goods	6	14	20	68.4%
Subtotal	**166**	**343**	**509**	**67.4%**
Yard Waste				
Leaves and Grass	246	555	801	69.3%
Branches and Brush	222	500	722	69.3%
Subtotal	**468**	**1,055**	**1,523**	**69.3%**
Organics				
Food	460	186	646	28.8%
Rubber/Tires	81	12	92	12.5%
Wood	169	382	551	69.3%
Agri. Crop Residue	38	0	38	0.0%
Manure	21	0	21	0.0%
Textiles/Leather	271	0	271	0.0%
Diapers	203	0	203	0.0%
Other Organics	129	0	129	0.0%
Subtotal	**1,373**	**579**	**1,952**	**29.7%**
Other Wastes				
Inert Solids	186	424	610	69.5%
Hazardous Waste	30	0	30	0.0%
Appliances	33	0	33	0.0%
Subtotal	**249**	**424**	**673**	**63.0%**
Ash	37	0	37	0.0%
Sewage Sludge	0	0	0	0.0%
Industrial Sludge	0	0	0	0.0%
Asbestos	0	0	0	0.0%
Auto Shredder Waste	0	0	0	0.0%
Auto Bodies	1	0	1	0.0%
Stuffed Furn./Mattresses	136	0	136	0.0%
Subtotal	**173**	**0**	**173**	**0.0%**
Total Waste	**3,912**	**3,905**	**7,816**	**50.0%**

CALIFORNIA INTEGRATED WASTE MANAGEMENT BOARD

Local Assistance and Planning Committee
February 9, 1994

AGENDA ITEM # 3

ITEM: Consideration of Petition for Reduction in the Diversion Requirements for the City of Lindsay.

BACKGROUND:

Public Resources Code (PRC) Section 41780 requires that each city and county divert 25 percent of its waste from landfills by 1995 and 50 percent by the year 2000. Source Reduction and Recycling Elements (SRRE) are prepared by the cities and counties as a planning guide for meeting the diversion mandates (PRC Section 41000 and 41300). The SRREs describe the programs which a jurisdiction will use to achieve 25 percent and 50 percent diversion. PRC Section 41782 allows the California Integrated Waste Management Board (Board) to grant reductions in planning and diversion requirements. Section 18775 of Title 14 of the California Code of Regulations (14 CCR), identifies the qualifications that a jurisdiction must meet to petition the Board for a reduction in the requirements.

An incorporated city must have specific characteristics in order to petition for a reduction. The required characteristics are:

1. a geographic area of less than 3 square miles;
   or
   a population density of less than 1500 people per square mile; and

2. a waste generation rate of less than 100 cubic yards per day or 60 tons per day.

Requested Reductions

The City of Lindsay is requesting a reduction of the 1995 diversion requirements to 13.5 percent.

ANALYSIS:

City Characteristics

The City of Lindsay is located in Tulare County, in the southeast portion of the San Joaquin Valley. This area is predominantly flat, but is bounded on the east by the foothills of the Sierra Nevada mountains. The City is adjacent to the rural, unincorporated area of Tulare County. The City is primarily an agricultural-based economy with 10 orange packing houses, an orange juice plant and a marmalade plant. The jobs associated with these employers are primarily low-skill and low-wage. The

two largest employers in the City closed in 1992, significantly impacting the economic base of the city. Jobs in the school, government, and health care system are the high-skill and high-wage jobs available within the City. The City of Lindsay has a median household income of $20,773 and a population of 8,825.

The City of Lindsay meets the criteria to petition the Board for reduced diversion and/or planning requirements. The City of Lindsay has an area of 2.4 square miles, and a waste generation rate of 25.6 tons per day.

Solid Waste Collection and Disposal

There are no permitted solid waste disposal facilities in the City. Most of the solid waste generated in the City is disposed of at the Woodville Disposal Site, 11 miles southwest of the City.

Allied Disposal has an exclusive franchise contract with the City of Lindsay, through December 1994, for the collection of solid waste generated in the City. Subscription to Allied Disposal's service is mandatory and all residential and commercial customers are billed for the service by the City. The City of Lindsay's Public Works Department also provides special pick-up service year-round and leaf pick-ups in the fall and winter of each year.

Current Diversion Programs

Currently 457 tons per year, or 4.9 percent of the City's waste, is diverted from disposal through source reduction and recycling. Most of the current diversion is the result of the citizens of Lindsay using other jurisdictions' programs.

The following table summarizes the diversion activities and quantities diverted in 1990.

Diversion by Material Type
Tons per Year

Material	Total	Diversion	Residential	Non Residential
OCC/Kraft	247	2.64%	0	247
Mixed Paper	2	0.02%	0	2
PET	3	0.03%	3	0
Other Plastic	1	0.01%	0	1
CRV Glass	26	0.28%	26	0
Other Glass	9	0.09%	9	0
Aluminum Cans	88	0.94%	88	0
Other Aluminum	12	0.13%	0	12
Other Ferrous	43	0.46%	0	43
White Goods	14	0.15%	0	14
Wood	12	0.13%	0	12
Totals	**457**	**4.88%**	**126**	**331**

Existing Diversion Programs

- California Certified Redemption Centers.
- Landfill salvage program (recovered from self-haul loads).
- Reduced tipping fee for clean loads of yard waste.
- Commercial/Industrial programs that collect cardboard, mixed paper, mixed plastic, and wood pallets.

The initial Solid Waste Generation Study identified 459 tons of waste material as diverted by these and other programs in 1990; this represents 4.9 percent of the waste generated in the City. This includes 2 tons per year of inert solids, which have been excluded from the base year waste diversion levels as specified in PRC 41781.2. The exclusion of these 2 tons does not significantly affect the base year diversion rate of 4.9 percent for the City.

Proposed Diversion

The City plans on maintaining existing diversion programs. In addition, the City plans on implementing new programs to increase diversion levels to 13.5 percent. The following programs will be targeted by the City:

- Pursue the development of a source separated yard waste collection and processing program. The yard waste collection program was identified in and selected from the original preliminary draft SRRE. The City of Lindsay found this program to be the most effective in diverting large amounts of waste while keeping the fiscal realities facing the City in mind.

- Promote public education programs associated with the yard waste program.

- Develop plans for a curbside collection program for CA redemption value cans and bottles as well as promote the use of the CA Certified Redemption Center that serves the City.

- Develop a newspaper collection and drop off program with the local school.

- Utilize the materials from the media kits provided by the CIWMB, to the extent practical.

- As new markets for materials become available through the Recycling Market Development Zone, the City will investigate the feasibility of diverting materials to such facilities.

- The City is also continuing to monitor purchasing decisions to encourage the purchase of materials and products that are recycled, that have minimal packaging, are supplied in bulk, and are reusable, recyclable and divertable.

Proposed Planning and Diversion Reductions

Reduction in the diversion requirements:
The City of Lindsay requests that the diversion level required for the short-term planning period (1991-1995) be reduced from 25 percent to 13.5 percent.

The City is requesting this reduction for the following reasons:

a) The cost of implementing additional diversion programs will be a significant hardship for the City due to the lack of funding associated with the small size and waste generation of the City (see table summarizing the current Solid Waste budget for the City).

b) The City does not have the staff to pursue extensive diversion programs. The Public Works Director is the staff assigned for the City's solid waste activities.

c) The City of Lindsay has primarily an agricultural-based economy, and has a lack of commercial and industrial enterprises that could provide waste streams that are easily and economically targeted for diversion programs.

Funding

The Solid Waste Budget for the City of Lindsay is funded through monthly billings for service on residential and commercial solid waste collection accounts, as well as a 23 percent franchise fee. These services and franchise fee raise $514,000 annually (see table below). An additional $50,000 is proposed to fund the yard waste collection and processing program through a proposed $1.90 a month surcharge on residential solid waste collection accounts. The surcharge is currently being studied and should become effective in early 1994. Even with the extra revenue from the surcharge the Solid Waste budget expenditures exceed annual revenues by $10,000, for fiscal year 1993-94, leaving a deficit in the Solid Waste budget.

The proposed yard waste diversion program is anticipated to cost between $4.50 and $5.00 per household per month. The City estimates that diversion programs to meet the full 25 percent diversion goal would add an additional $128,700 to annual operating costs.

City of Lindsay - Solid Waste Budget
Fiscal Year 1993-94

Revenues	**$564,000**
Disposal Charges	510,000
Special Pickups	3,700
Misc. Receipts	300
Recycling Fee	50,000
Expenses	**$574,065**
Salary	42,900
Overtime	1,000
Benefits	18,800
Dept. Operating Supplies	4,000
Shop Supplies	200
Vehicle Fuel & Oil	1,200
Vehicle Allowance	240
Vehicle Repair & Maintenance	5,500
Small Tools/Equipment	200
Contract Services: Allied Disposal	372,000
Communications, GTE	1,000

Insuranee	5,675
Repair & Maintenance Services	600
Other Services & Charges	1,500
Dues & Subscriptions	50
Training & Meetings	200
Franchise Fee Expense	24,000
Yard Waste Program & Recycling Pickup	50,000
Capital Outlay-Improvements (other than buildings)	5,000
Capital Outlay-Alley Repair	40,000

Staff Analysis

City Staff

Responsibility for administering the solid waste activities and waste management programs within the City of Lindsay is placed solely upon the Public Works Director. The tasks of bookkeeping for billing and collection, and administration for franchise contract services are provided by appropriate city staff. Duties of the Public Works Director are summarized below.

City of Lindsay-Public Works Director

- Responsible for fourteen City functions beside solid waste including: parks, water services, wastewater, buildings, landscape districts, and agricultural irrigation.
- Plans and directs all solid waste activities within the City limits.
- Responsible for the Integrated Waste Management Act of 1989 compliance activities.

The City of Lindsay believes, based on their low population and volume of solid waste, limited funding and staff, and lack of local markets for recyclables that they will be able to reach an alternative diversion goal of 13.5 percent goal for the short term period.

Board staff believe that the request for a reduction of the short-term goal to 13.5 percent is a reasonable request considering the demographic and economic characteristics of the City of Lindsay.

Conclusion

The City of Lindsay qualifies, under the conditions of PRC Section 41782 and 14 CCR Section 18775, to petition for a

reduction in the diversion requirements. 14 CCR Section 18775 requires the petitioning jurisdiction to provide the following information in its petition:

1. A general description of existing disposal and diversion systems, including documentation of the types and quantities of waste disposed and diverted;

2. Identification of the specific reductions being requested (i.e., planning and/or diversion requirements);

3. Documentation of why attainment of diversion and planning requirements is not feasible; and

4. The planning and diversion requirements that are achievable, and why.

Board staff have reviewed the petition from Lindsay and found that it complies with these requirements. Based on the information provided in the petition, Board staff believe that the diversion reduction requested by Lindsay is justified.

Board staff have worked with the consultant for the City of Lindsay in the preparation of the petition. The current and proposed programs outlined in the City's preliminary draft SRRE and petition demonstrate the City's commitment to meeting the intent of the Integrated Waste Management Act of 1989. The City of Lindsay has asked for the reduction based on limited staffing and a lack of funds for implementing diversion programs. The City has sufficiently demonstrated both of these conditions.

STAFF COMMENTS:

Board staff recommend that the Committee consider the City of Lindsay's petition for reduction in the diversion requirements to 13.5 percent.

ATTACHMENTS

1. Copy of 14 CCR Section 18775
2. City of Lindsay reduction petition
3. Board Resolution # 94-

Prepared by: Trevor M. Anderson Phone (916) 255-2309

Reviewed by: Toni Galloway Phone (916) 255-2653

Reviewed by: Judith J. Friedman Phone (916) 255-2555

Reviewed by: Dorothy Rice Phone (916) 255-2206

Legal Review: EB Date/Time 9:55 a.m. 1/28/94

CALIFORNIA INTEGRATED WASTE MANAGEMENT BOARD
RESOLUTION # 94-37

FOR THE REDUCTION OF DIVERSION
REQUIREMENTS FOR THE CITY OF LINDSAY

Title 14, Division 7, Chapter 9, Section 18775

WHEREAS, Public Resources Code Section 41782 allows reductions in the diversion and planning requirements specified in Public Resources Code Section 41780, if a city or county can demonstrate that achievement of the mandated requirements is not feasible due to geographical size or low population density, and small waste generation rates; and

WHEREAS, Title 14 of the California Code of Regulations, Section 18775 allows for qualifying jurisdictions to petition the Board for reductions in planning and diversion goals mandated by Public Resources Code Section 41780; and

WHEREAS, the Board has received a petition for reductions in the diversion requirements from the City of Lindsay; and

WHEREAS, the City of Lindsay qualifies based on geographic size, population density, and small waste generation rates to petition the Board for specified reductions; and

WHEREAS, the Board has found that the request for reduction in diversion requirements to allow the City of Lindsay to achieve a 13.5 percent level of waste diversion by January 1, 1995 is reasonable; and

WHEREAS, the City has complied with Public Resources Code Section 41782, and Title 14 of the California Code of Regulations, Section 18775; and

WHEREAS, the Integrated Waste Management Local Assistance and Planning Committee approved the staff recommendation to allow the City of Lindsay to reduce the short term diversion goals from 25 percent to 13.5 percent;

NOW, THEREFORE, BE IT RESOLVED that the Board hereby grants the reduction in diversion requirements for the City of Lindsay to 13.5 percent for January 1, 1995.

BE IT FURTHER RESOLVED, that if the City SRRE has not been locally adopted and submitted to the Board by the deadline set in statute; or, if the City SRRE is not approved by the Board pursuant to the provisions of Chapter 7, Part 2, of Division 30 of the Public Resources Code (commencing with Section 41800), then the diversion reductions granted above shall be deemed revoked.

CERTIFICATION

The undersigned Executive Director of the California Integrated Waste Management Board does hereby certify that the foregoing is a full, true and correct copy of a resolution duly and regularly adopted by the California Integrated Waste Management Board on February 23, 1994.

Dated:

Ralph E. Chandler
Executive Director

Section 18775. Reduction in Diversion and Planning Requirements.

(a) A city or county may petition the Board, at a public hearing, to reduce the diversion requirements specified in Public Resources Code section 41780, and planning requirements. To petition for a reduction, the city or county shall present verification to the Board which indicates that achievement of the requirements is not feasible due to small geographic size or low population density of the city or county and the small quantity of waste it generates. To qualify to petition for a reduction in the diversion and planning requirements, a city or county must meet the following :

(1) For an incorporated city, a geographic area of less than 3 square miles or a population density of less than 1500 people per square mile and a waste generation rate of less than 100 cubic yards per day or 60 tons per day.

(2) For the unincorporated area of a county, a geographic area of less than 1500 square miles or a population density of less than 10 people per square mile and a waste generation rate of less than 100 cubic yards per day or 60 tons per day.

b) Based on information presented at the hearing, the Board may establish reduced diversion requirements, and alternative, but less comprehensive, planning requirements. A petitioner may identify those specific planning requirements from which it wants to be relieved and provide justification for the reduction. Examples of reduced planning requirements could include, but would not be limited to, reduced requirements for solid waste generation studies, and reduced requirements and consolidation of specific component requirements. These reduced planning requirements, if granted, must ensure compliance with Public Resources Code section 41782.

(c) Cities and counties requesting a reduction in the diversion and planning requirements must include the following information in the reduction petition:

(1) A general description of the existing disposal and diversion systems, including documentation of the types and quantities of waste disposed and diverted. Documentation sources may include, but are not limited to, the following:

(A) Solid Waste Generation or Characterization Studies;

(B) Diversion data from public and private recycling operations;

(C) Current year waste loading information from permitted solid waste facilities used by the jurisdiction;

(2) Identification of the specific reductions being requested (i.e. diversion or planning requirements or both);

(3) Documentation of why attainment of mandated diversion and planning requirements is not feasible. Examples of documentation could include, but are not limited to:

(A) Evidence from the documentation sources specified in paragraph (c)(1) of this section;

(B) Verification of existing solid waste budget revenues and expenses from the duly authorized designated representative of the city or county;

(4) The planning or diversion requirements that the city or county feels are achievable, and why.

(d) Cities and counties which petition the Board and receive a reduction in the diversion and planning requirements pursuant to this section, shall fully address the following issues in an annual report submitted to the Board within 90 days of the anniversary date the reduction was originally granted, and each year thereafter until the Board-mandated diversion levels are met:

(1) the city or county's current activities to establish and maintain source reduction and recycling programs;

(2) changes in demographics in the city or county;

(3) changes in types and amounts of waste generated in the city or county;

(4) changes in funding sources for implementing the Elements or Plan;

(5) changes in markets for the city or county's recyclables.

(e) The Board may, upon review of the annual report, find that a revision or revocation of the reduction is necessary. The Board shall present any such findings at a public hearing.

(f) If a regional agency is named in a regional agreement as the responsible entity for the achievement of the diversion requirements specified in PRC section 41780, neither the regional agency nor any member of the regional agency will be eligible for a reduction in the diversion requirements of PRC section 41780.

NOTE: Authority cited: Section 40502, Public Resources Code. Reference: Section 41782, 41783 through 41786 and 41802, 40973 Public Resources Code.

A Petition to the California Integrated Waste Management Board

For a Reduction in the Diversion and Planning Requirements Mandated by AB 939

Submitted By:

The City of Lindsay, California
150 N. Mirage
Lindsay, California 93247

November 1993
Revised January 1994

Prepared By:

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1.0 SUMMARY

The City of Lindsay is committed to cooperating with the State to achieve the intentions of AB 939. However, because of the fiscal impacts of other State-mandated programs, the small population base of the City, limited City staff and financial resources, and limited commercial and industrial businesses with corresponding significant waste volumes, the City of Lindsay will not be able to feasibly achieve a 25% diversion rate by 1995. As an alternative, the City proposes to implement targeted programs that it believes to be feasible and effective in producing a 13.5% diversion rate by 1995.

The City of Lindsay hereby petitions the California Integrated Waste Management Board and requests that the Board consider the conditions facing the City and approve its petition for an alternative diversion program.

2.0 ELIGIBILITY TO PETITION THE BOARD

The City of Lindsay meets the criteria established by the CIWMB regulations for filing this petition:

Geographic Area[1]	2.4 square miles
Waste Generation Rate (1990)[2]	25.6 tons/day (43 cubic yards)

Sources: [1] Tom McCurdy, Director, City of Lindsay Public Works Department.
[2] Source Reduction and Recycling Element, City of Lindsay, April 1992.

3.0 TYPE OF PETITION

3.1 Short-Term Planning Period

The City of Lindsay requests that the diversion level for the short term planning period (1991 - 1995) be reduced from 25% to 13.5% because it cannot feasibly meet the diversion requirements in an efficient and cost effective manner.

3.2 Medium-Term Planning Period

The City also does not believe that is can feasibly meet the medium-term (1996-2000) diversion requirement of 50% in an efficient and cost effective manner and intends to petition the CIWMB prior to the year 2000 for a reduction in its medium-term diversion requirements.

4.0 EXISTING CONDITIONS

4.1 Geographic Setting and Physical Characteristics

The City of Lindsay is located in Tulare County, in the southeast portion of the San Joaquin Valley. This area is predominantly flat, but is bounded on the east by the foothills of the Sierra Nevada mountain chain. The City of Lindsay is 2.4 square miles in area and is surrounded by the rural, unincorporated area of Tulare County.

4.2 Population and Housing

The 1993 population of the City of Lindsay is estimated at 8,825 persons (California Department of Finance Report 93 E-1, *Population Estimates for California Cities and Counties, Official State Estimates*, May 1993). The housing units in the City of Lindsay include 1818 single-family units, 644 multi-family units, 188 mobile homes, and 28 other residential units (State Census Data Center, *1990 Census of Population and Housing, Summary Tape File 1, Complete Tables*).

4.3 Economy

The City of Lindsay currently has an agricultural-based economy with approximately ten orange packing houses which together employ the largest number of persons in the City. An orange juice plant and a marmalade plant are also part of the agricultural-based economy. Jobs in the agricultural-based sector are primarily low-skill and low-wage. Jobs in the school, government, and health care sectors are the primary high-skill, high-wage paying jobs available within the City. The median household income in 1989 was $20,773 (U.S. Census of 1990).

The two largest employers in the City closed in 1992, significantly impacting the economic base of the City. Lindsay Olive which formerly was the largest employer in the City with approximately 450 employees closed and filed for bankruptcy in 1992. General Cable, a manufacturer of telephone cable, and the second largest employer with approximately 140 employees also closed in 1992.

In the commercial sector, there are between 60 and 80 commercial retail and restaurant establishments, between 30 and 40 office type uses, and approximately 25 medical-related offices in the City. Currently, the downtown commercial area has a vacancy rate of approximately 20%, and a shopping center located near the City boundary has about 6 vacancies out of the 15 retail units. Because residents tend to shop in the nearby Cities of Visalia and Porterville, the City has

experienced a significant reduction in retail sales tax revenue (Personal communication with Scott Townsend, Planning Department, City of Lindsay, September 21, 1993).

The following lists the largest private sector employers in the City of Lindsay with their respective employment figures:

• Hit Products Corporation (irrigation equipment).	75
• California Citrus Pulp Co. (marmalade base processor)	18-70
• Harvest Container Co., Inc. (boxes, corrugated)	50
• California Citrus Producers (fruit juices, frozen)	40-45
• Brogdex Company (chemical preparations)	38-48
• Lindsay Olive Growers (olives packaged in cans, jars)	35
• Select Design Manufactures (furniture manufacturer)	35
• Apache Plastics LP (plastics, pipe)	25
• Arts Custom Cabinets, Inc. (wood kitchen cabinets)	16-25
• Chapman Welding Works (machine shop)	9
• Lindsay Cabinets (wood kitchen cabinets)	7
• Lindsay Gazette (newspapers)	4
• Mt. Whitney Litho, Inc. (lithographing/printing)	4
• Select Meat Co. (meat processor)	4
• Ag 2000 (agricultural supplier)	3

4.4 Solid Waste Generation and Management

Solid Waste Generation

An Initial Solid Waste Generation Study was completed for the City pursuant to Article 6.1 of the Planning Guidelines issued by the CIWMB. The results of the study are summarized in Table 1.

Table 1

SOLID WASTE GENERATION[1]
(Tons/Year - 1990)

Source	Disposed	Diverted	Incinerated	Generated
Residential	3,525	126	0	3,651
Commercial	2,165	331[2]	336[2]	2,832
Industrial	496	0	0	496
Self-Haul	2,380	0	0	2,380
Total	8,567	457	336	9,360

[1] Solid Waste Generation data has been modified to exclude inert solids diverted through an asphalt recycling program pursuant to AB 2494.

[2] Represents all non-residential diversion or incineration including industrial and self-haul.

Source: Source Reduction and Recycling Element, City of Lindsay, April 1992.

The Initial Solid Waste Generation Study prepared for the City was part of a joint-regional study conducted for all jurisdictions in Tulare County. The waste disposal characterization study was performed using a quantitative field methodology. Waste disposal quantities were obtained through County disposal records and quantity records from Allied Disposal, the City's contract waste hauler. Residential and commercial loads for the region were sampled and sorted to determine the composition of wastes disposed of. Industrial/roll-off loads and self-haul loads for the region were visually surveyed to determine the composition of wastes disposed of. Waste diversion quantities were determined using jurisdiction-specific data from various diversion programs and recycling facilities.

Disposal Sites

There are no permitted solid waste disposal facilities or sites in the City of Lindsay. The Woodville Disposal Site, located approximately 11 miles southwest of the City in the unincorporated area of Tulare County, serves as the primary disposal site for waste generated within the City. The landfill is owned and operated by Tulare County.

Collection Services

Allied Disposal has an exclusive franchise contract through December 1994 with the City of Lindsay for the collection of solid waste disposed of in the City. Subscription to Allied Disposal's

service is mandatory and all residential and commercial customers are billed for the service by the City. Collection services provided by Allied Disposal are automated and all residential and some commercial customers are provided with 100-gallon automatic containers. Other commercial customers use one-, two-, three-, and six-yard bins.

The City of Lindsay's Public Works Department also provides special pick-up service year-round and leaf pick-ups in the fall and winter of each year.

Current Diversion Activities

The Initial Solid Waste Generation Study identified waste diversion quantities by collecting jurisdiction-specific diversion data from various diversion programs and recycling facilities. Diversion programs identified include the following:

- California Certified Redemption Centers buy-back programs which collect PET California redemption value (CRV) containers, glass CRV and other glass food and beverage containers, and aluminum cans.
- Commercial/industrial programs that collect cardboard, mixed paper, mixed plastic, and wooden pallets for recycling.
- A Landfill salvage program at the Woodville Disposal Site which recovers other aluminum metals, other ferrous metals, and white goods from self-haul loads for recycling.
- Inert solids are diverted through an asphalt salvage program prior to reaching a disposal site.
- A reduced tipping fee is charged at the Woodville Disposal Site for disposal of clean loads of yard and wood waste. These materials are processed and used as fuel for biomass or cogeneration plants.

The Initial Solid Waste Generation Study identified 459 tons of waste materials that were diverted by these programs in 1990; this represents 4.9% of the waste generated in the City. Table 2 presents a summary of the diversion activity by material type. Another 320 tons of yard waste and 16 tons of tires were diverted to transformation facilities in 1990.

Table 2 -

DIVERSION BY MATERIAL TYPE
(Tons/Year - 1990)

Material	Residential	Non-Residential
OCC/Kraft	0	247
Mixed Paper	0	2
PET	3	0
Other Plastic	0	1
CRV Glass	26	0
Other Glass	9	0
Aluminum Cans	88	0
Other Aluminum	0	12
Other Ferrous	0	43
White Goods	0	14
Wood	0	12
Inert Solids	0	2
Total	126	333

Source: Source Reduction and Recycling Element, City of Lindsay, April 1992.

Assembly bill 2494 (Sher), *Statutes of 1992*, changed the method by which compliance with the diversion requirements is determined from a generation based method to a disposal based method. Assembly bill 2494 also specifies that for the purposes of determining the base amount of solid waste from which the diversion requirements are calculated, "solid waste" does not include the diversion of agricultural wastes, inert solids, white goods, and scrap metals unless all three of the following criteria are met:

> "(1) The city, county or regional agency demonstrates that the material was diverted from a permitted disposal facility through an action by the city, county, or regional agency which specifically resulted in the diversion.
>
> (2) The city, county, or regional agency demonstrates that, prior to January 1, 1990, the solid waste which is claimed to have been diverted was disposed of at a permitted disposal facility in the quantity being claimed as diversion.
>
> (3) The city, county, or regional agency is implementing, and will continue to implement, source reduction, recycling, and composting programs, as described in its source reduction and recycling element".

Based on the provisions of AB 2494, the diversion quantities of other aluminum and other ferrous metals and whites goods recovered in the landfill salvage program are still included in the baseline waste generation data. However, the diversion quantity of inert solids diverted through the asphalt

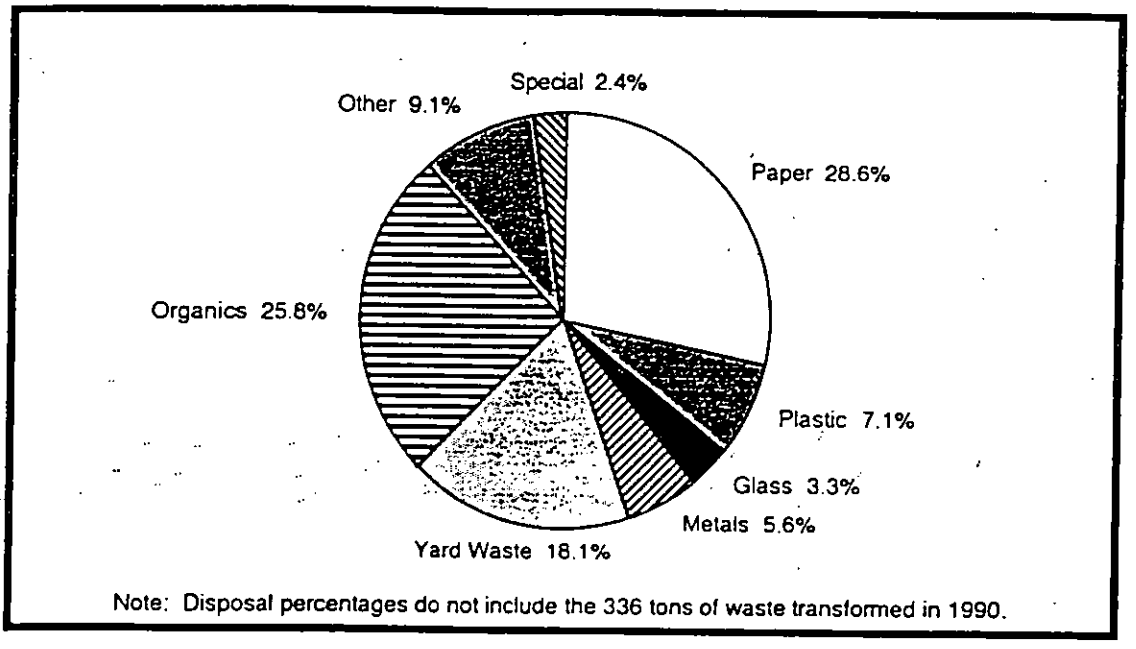
salvage program have been eliminated from the waste generation data because the three criteria listed above are not met. Based on the elimination of this diversion activity from the baseline waste generation data, the existing diversion tonnage is reduced from 459 tons to 457 tons; the 4.9% baseline diversion level remains unchanged.

Types of Waste Disposed and Diverted

A profile of the waste disposal and waste diversion streams, modified to excluded the inert solids as described above, is included as Appendix I to this petition. Summaries of the types of waste disposed of and diverted in the City of Lindsay are provided in Figures 1 and 2.

Figure 1

WASTE DISPOSAL COMPOSITION SUMMARY

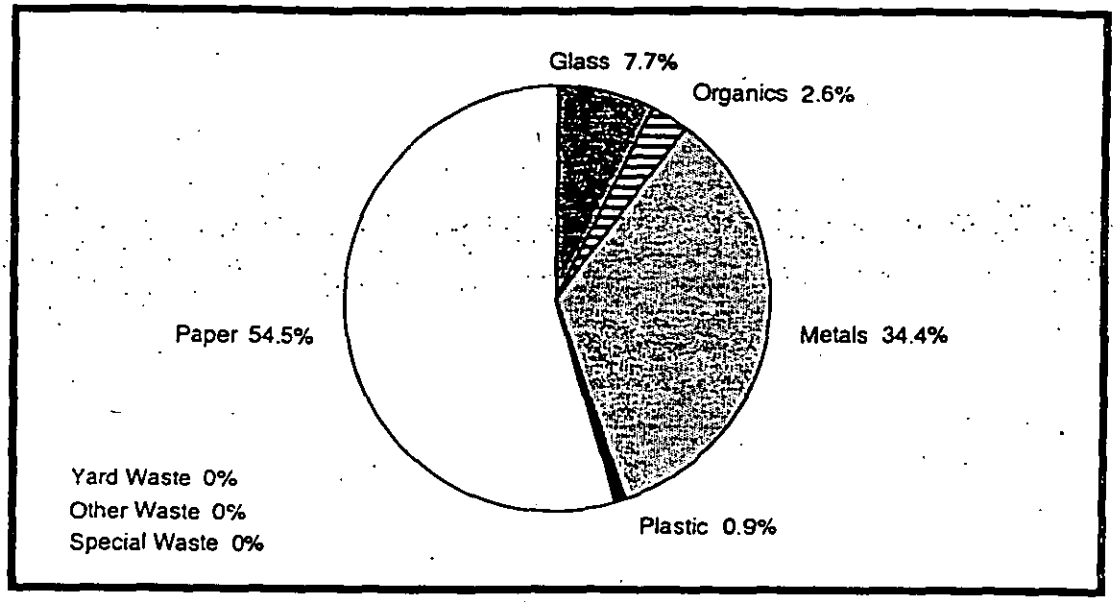


Note: Disposal percentages do not include the 336 tons of waste transformed in 1990.

Source: Source Reduction and Recycling Element, City of Lindsay, April 1992.

Figure 2

WASTE DIVERSION COMPOSITION SUMMARY



Source: Source Reduction and Recycling Element, City of Lindsay, April 1992.

5.0 REASONS WHY A 25% DIVERSION LEVEL CANNOT BE ACHIEVED

5.1 Programs Selected in the SRRE

A summary of the new diversion and education and public information programs initially selected in the City's SRRE for implementation in the short-term planning period is provided below. Table 3 summarizes the estimated program costs and material diversion rates to be realized if each of these new programs were implemented.

Source Reduction Programs

1. Public Education and Technical Assistance programs including:

    a. Provide technical assistance to businesses and consumers / homeowners through workshops and seminars on source reduction techniques and activities.

    b. Provide public education efforts through the media, the school system, and City offices programs to increase awareness of source reduction and waste management issues.

    c. Provide public recognition and awards to individuals and businesses that implement source reduction activities.

d. Promote backyard composting and xeriscaping.

e. Promote the use of cloth diapers in lieu of disposables.

2. Rate Modification programs including:

   a. The City will consider the practicality of modifications to the current residential collection rate structure to a quantity-based user fee for both commercial and residential collection; the City will continue its quantity-based user fee for commercial waste collection.

   b. Disposal fee modification to encourage the delivery of segregated loads to the landfill of certain divertable materials. (Note: The County of Tulare will develop this program. Should the County choose not to implement this alternative, the City does not have the authority to modify disposal fees, and therefore this alternative would not be implemented.)

3. Regulatory programs to encourage source reduction on the part of local government, private businesses, and City residents including:

   a. A City offices procurement program and policy to encourage source reduction through purchasing decisions. Purchase preferences will be extended to materials and products that have minimal packaging, are supplied in bulk, and are reusable, recyclable, and durable.

Recycling Programs

4. Develop a residential curbside recycling program to collect and recycle aluminum and tin cans, PET, HDPE, newspaper, CA redemption and other recyclable glass.

5. Develop a multi-family recycling program to collect and recycle aluminum and tin cans, PET, HDPE, newspaper, CA redemption and other recyclable glass.

6. Develop a commercial / industrial recycling program to collect and recycle ferrous metals, newspaper, and corrugated cardboard.

7. The County currently salvages materials at the Woodville Disposal Site. This program would expand the salvaging program and would recover corrugated cardboard, all metals, and inert solids from roll-off boxes and self-haul loads. This program will be developed and operated by the County, with assistance from the City.

Composting Programs

8. Establish a residential yard waste collection program.

9. Establish/expand a yard and wood waste drop-off program at the County landfills.

10. Develop a windrow composting system.

Special Waste Programs

11. Land application of sewage sludge for non-agricultural purposes.

Education and Public Information Programs

12. Outreach efforts including:
    - Coordination with Community Groups and Government Agencies
    - Coordination with Non-Profit Organizations
    - Participation in Local Events

13. Technical Assistance efforts including:
    - Junk Mail Reduction Program
    - Brochures
    - How-to Information
    - Technical Assistance
    - Recycling Videos

14. Public Awareness efforts including:
    - Environmental Shopping Campaign
    - Contests and Displays
    - Promotional Materials

15. Education efforts including:
    - Environmental Education Curriculum
    - Special Assemblies, Field Trips

Summary of Programs Selected and Cost

The estimated program costs and material diversion to be realized through implementation of the programs initially selected in the City's SRRE for the short-term planning period are presented in Table 3.

5.2 Barriers to Successful Program Implementation

The factors present in the City of Lindsay which present significant barriers to successful implementation of programs that would allow the City to achieve the 25% diversion goal include limited availability of City staff and lack of funding associated with the small size of the City and corresponding waste generation. Additionally, the lack of commercial and industrial enterprises of significant size that would provide waste streams that are easily and economically targeted for implementation of diversion programs contribute to the City's inability to achieve the 25% diversion goal. The conditions associated with limited staff availability and funding sources are further described below.

Table 3

PROPOSED SHORT-TERM DIVERSION PROGRAMS - SRRE
Estimated Program Cost and Material Diversion[1]

Program	Initial Year's Cost	Annual Cost	Material Diversion %
Source Reduction Programs			
1. Public Education/Technical Assistance	---[2]	---[2]	0%
2. Rate Structure Modifications	---[3]	---[3]	0%
3. Regulatory Programs	---[3]	---[3]	0%
Recycling Programs			
4. Residential Curbside Recycling	$25,500	$31,800	2.3%
5. Multi-family Curbside Recycling	$3,000	$7,950	0.5%
6. Commercial/Industrial Recycling	$17,700	$24,000	2.6%
7. County Landfill Salvage Programs	---[4]	---[4]	2.8%
Composting Programs			
8. Residential Yard Waste Collection	$36,850	$38,700	4.1%
9. Yard and Wood Waste Drop-off	---[5]	---[5]	7.8%
10. Windrow Composting System	$32,800	$50,200	---[8]
Special Waste Programs			
11. Land Application of Sewage Sludge	---[6]	---[6]	N/A
Education and Public Information Programs			
12. through 15.	$6,000	$6,000	N/A
Program Coordinator for Recycling/ Composting/Public Education Programs[7]	$8,750	$8,750	N/A
TOTAL	**$130,600**	**$167,400**	**20.1%[9]**

[1] Costs include the planning, implementation, and monitoring of programs.
[2] Costs are included in the education and public information program.
[3] Costs are included in existing programs.
[4] Costs are borne by the County.
[5] Assumes expansion of yard-waste drop-off programs operated at the County landfills and that the costs will be borne by the County.
[6] No additional costs are expected with continuation of this program.
[7] SRRE coordinator to be shared between four Cities (Woodlake, Exeter, Farmersville, and Lindsay); this plan has already been abandoned due to lack of funds.
[8] Diversion percentage included in above composting programs.
[9] With existing diversion of 4.9%, total future diversion would be 25%.
Source: Source Reduction and Recycling Element, City of Lindsay, April 1992.

Limited Availability of City Staff

The City has limited staff available to coordinate and monitor the implementation and operation of new activities such as waste diversion and recycling programs. The City's SRRE included plans for hiring a Program Coordinator for recycling, composting, and public education programs to be shared with the Cities of Woodlake, Exeter and Farmersville; however, this plan had to be abandoned due to lack of adequate financial resources. Thus, program implementation must now be coordinated by the remaining staff resources who have other responsibilities concerning the City's operations.

The Public Works Director is responsible for solid waste programs as well as AB 939 compliance. This individual is also responsible for managing fourteen other City functions such as parks, water, wastewater, buildings, landscape districts, and agricultural irrigation. The salary figure presented in the Solid Waste Budget (Table 4), includes bookkeeping for billing and collection and administrative services for franchise contract.

Coordination and implementation of the education and public information programs, source reduction, recycling, and composting programs proposed to achieve a 25% diversion level will significantly impact the work-load of the existing staff.

Program Costs vs. Revenue Sources

Estimated initial and annual program costs for the programs initially selected in the SRRE that were designed to achieve the additional 20.1% diversion level for a total diversion level of 25% are summarized in Table 3. The total initial program costs incurred directly by the City are estimated to be $130,600, while the annual program costs are estimated to be $167,400 per year. Implementation of these programs will substantially impact the financial resources of the City. Given the limited solid waste budget presented below, it is clear that the City cannot feasibly meet the diversion requirements in an efficient and cost effective manner.

The potential revenue source initially identified in the City's SRRE to fund these programs was an increase in the solid waste collection rate structure. Solid waste collection in the City is financed by monthly billings for service on residential and commercial solid waste collection accounts. The City bills for both the residential and commercial collection service that Allied Disposal provides, and collects a 23% franchise fee. The City's franchise fee is used to cover expenses associated with the waste management system as follows:

- Billing and collection: 9%
- Alley repairs (from waste collection truck damage): 5%
- Franchise fee: 5%
- Leaf Pick-up (2 times/year): 4%

Included in the $28.00/ton tipping fee at the County owned and operated landfills is a $1.00 surcharge for countywide household hazardous waste programs and a $3.47 surcharge for County-sponsored diversion programs.

The current rate for residential solid waste collection is $10.40/month for one, 100-gallon container. The collection rates are not adjusted annually for cost of living increases and are only adjusted to include increases in the County's landfill tipping fees as a pass-through cost from the hauler. The residential collection rate was increased from $9.50/month in 1991 to the current rate of $10.40/month to reflect increases in the County's landfill tipping fees. For commercial solid waste collection, the current rates range from $12.00/month for one, 100-gallon container to $45.45/month for a 3-yard bin (once per week pick-up) to $227.75/month for a 6-yard bin (three times per week pick-up). Increases in the commercial collection rates in 1991, ranged from 20% to 50%, depending on the bin size and number of pickups per week.

Table 4 summarizes the City's solid waste budget for Fiscal Year 1993-94.

For Fiscal Year 1993/94, the City's Budget allocated $574,000 for solid waste collection and related services, while the estimated revenue is $564,000. As noted in Table 4 above, the City's solid waste budget includes contingent revenues from a proposed $1.90/month/residential account surcharge that would be used to fund a pilot residential yard waste collection and processing program. This fee is currently being studied and should be implemented in the next few months. With the adoption of the recycling fee and implementation of this program in addition to other existing and planned programs as currently planned, the City could achieve a 13.5% diversion level. Funding for implementation of all of the programs required to meet the 25% diversion goal in an efficient and cost effective manner is not economically and feasible for the City. Additionally, the small population and economic base of the City places a strict limitation on the options for additional fees or taxes levied against local citizens and/or businesses.

Table 4

CITY OF LINDSAY - SOLID WASTE BUDGET
Fiscal Year 1993-94

Expenses	
Salary	42,900
Overtime	1,000
Benefits	18,800
Dept. Operating Supplies	4,000
Shop Supplies	200
Vehicle Fuel & Oil	1,200
Vehicle Allowance	240
Vehicle Repair & Maintenance	5,500
Small Tools/Equipment	200
Contract Services: Allied Disposal	372,000
Communications, GTE	1,000
Insurance	5,675
Repair & Maintenance Services	600
Other Services & Charges	1,500
Dues & Subscriptions	50
Training & Meetings	200
Billing and Collection	24,000
AB 939 Brush & Recycling Pickup	50,000
Capital Outlay - Improvements (other than buildings)	5,000
Capital Outlay - Machines & Equipment	0
Capital Outlay - Alley Repair	40,000
Total Expenses	**$574,065**
Revenue	
Disposal Charges	510,000
Special Pickups	3,700
Misc. Receipts	300
Recycling Fee[1]	50,000
Total Revenue	**$564,000**

[1] Proposed $1.90/month/residential account recycling fee to be considered by City Council by the end of 1993; would become effective January 1994.

Source: City of Lindsay 1993-1994 Fiscal Budget and Tom McCurdy, Director, City of Lindsay Public Works Department.

5.3 Cost Impact of Full Implementation of SRRE Programs

The median household income for the City of Lindsay is substantially below that for California in general. The local economic base is small and the City, like most other jurisdictions in the State, is concerned about the continued viability of its local businesses and industries. To the extent possible the City attempts to minimize the burden that the cost of local programs and services places on its residents and businesses.

To achieve a 25% diversion rate through full implementation of the programs listed in the City's SRRE, the City's annual solid waste budget (Table 4) would have to be increased by at least 40%, to over $800,000. The increases that would be required in the average residential and commercial refuse collection rates to fund these expenses would be significant.

Recent trends in the residential and commercial refuse collection rates and the increase that would be required to fund full implementation of the SRRE programs are shown in Figures 3 and 4. The 1994 rates shown in Figure 3 reflect the increase that will be required to fund the alternative diversion program proposed in this petition.

Figure 3
Residential Refuse Collection Rates
$/home/month

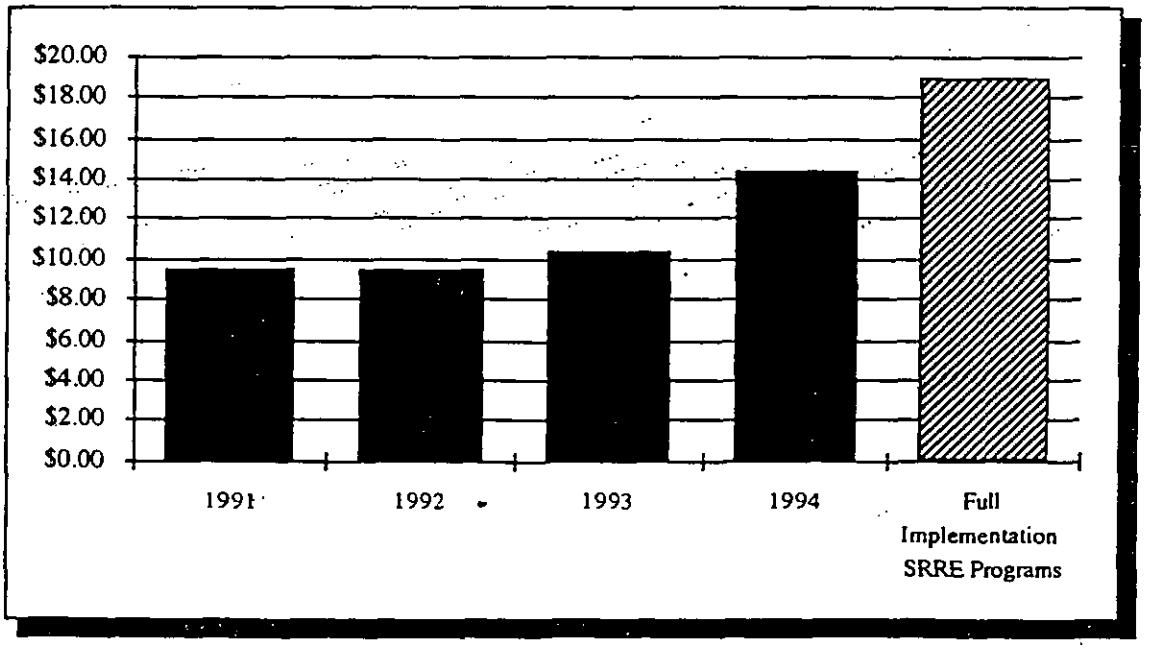
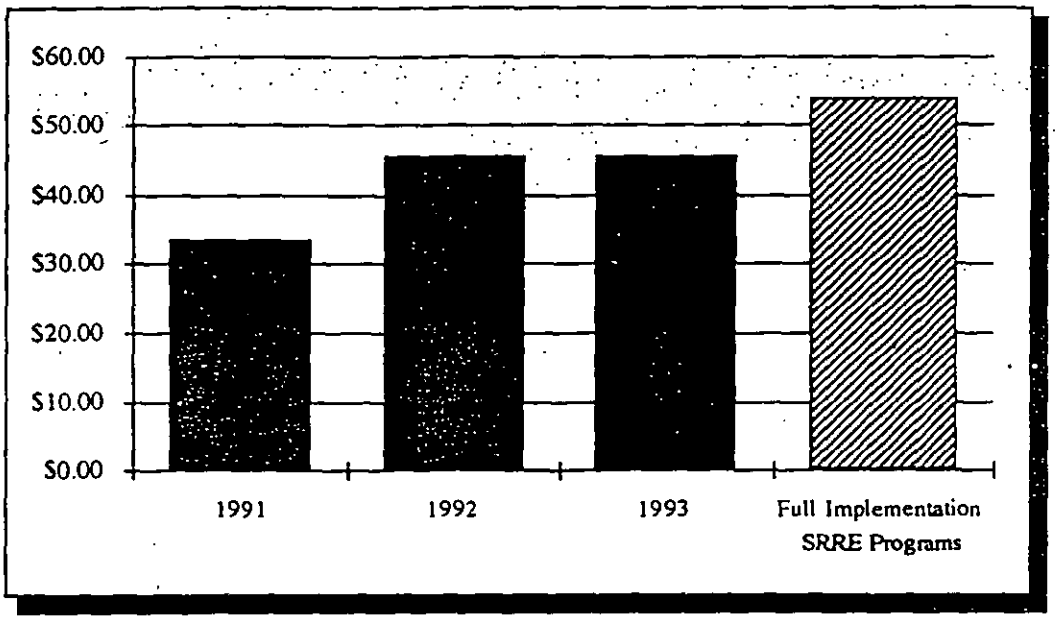


Figure 4

Commercial/Industrial Refuse Collection Rates
Monthly Cost for Weekly Pick-up of a 3-yard Bin



6.0 PROPOSED ALTERNATIVE WASTE DIVERSION PLAN

The City of Lindsay is committed to pursuing a waste reduction program that is effective in increasing the diversion of materials from local landfills but is also responsive to the fiscal realities of the City. Table 5 presents an alternative waste diversion plan for the short-term planning period based on modifications of programs selected for implementation in the SRRE. The land application of sewage sludge program would also be implemented under this alternative diversion plan.

The City is implementing a source separated yard waste collection program on a pilot basis that will target yard waste from the residential sector. The program will be implemented city-wide, but will be considered to be a pilot program prior to 1995 so that any problems encountered can be solved. Residents will be given a 105 gallon cart in which to deposit all yard waste. This program is anticipated to cost between $4.50 and $5.00/household/month. The City's refuse hauler will collect the yard waste weekly on a separate collection route. Initially, the yard waste will be hauled to the transfer and processing site at the County landfill. Yard waste materials collected at this site

would be converted into cogeneration or biomass fuel. Since this site is used by more than one jurisdiction, records will be kept of the amount of yard waste delivered by each jurisdiction.

Prior to the end of 1994, the yard waste materials will be diverted to a mulching operation developed in eastern Tulare County. Additionally, at least one private operator has announced plans for a composting facility that will serve the Tulare County area. As this or other facilities become available, the City will evaluate the merits and costs of taking the yard waste to one of these facilities.

The City is currently developing plans for a residential curbside collection program for California redemption value cans and bottles. The City is also developing a newspaper collection and drop off program with three local elementary schools. Newspapers collected by the students will be deposited in a bin provided by the City. When full, the City will haul the bin to a local processor. After deducting transportation costs, the City will forward proceeds from the sale of the newspaper to the school for use on school programs. As new markets for materials become available through the local Recycling Market Development Zone, the City will investigate the feasibility of diverting materials to such facilities. The purchasing agent for the City will continue to monitor purchasing decisions to encourage the purchase of materials and products that are recycled, that have minimal packaging, are supplied in bulk, and are reusable, recyclable and divertable.

The City will promote participation in the yard waste, curbside collection, and newspaper drop off programs, as well as continued use of the AB 2020 center through printed materials distributed with utility and tax bills. Special mailings and posters will be utilized as needed to announce the beginning or any major changes in the program. To the extent practical, the City will utilize materials from the media kit distributed by the CIWMB for mailings or for fliers, notices, or other materials distributed through the school system or mailed directly to residents and businesses.

7.0 MEDIUM-TERM DIVERSION PROGRAMS

The City also does not believe that it can feasibly achieve a 50% diversion level by the year 2000, and therefore intends to petition the CIWMB prior to the year 2000 for a reduction in this diversion mandate as well. At that time, the City will provide a report on the status of its existing diversion programs. The tentative medium-term diversion programs identified in the SRRE are summarized in Table 6, and include programs that would be deferred from implementation in the short-term planning period as a result of this petition. These programs are tentative until an alternative, reduced waste diversion plan would be reviewed by the CIWMB relative to the 50% diversion goal.

Table 5

PROPOSED ALTERNATIVE WASTE DIVERSION PLAN

Diversion Program	Diversion Tons/Yr. 1995	Percent Diversion 1995
Existing Programs[1]	510	4.9%
Residential Yard Waste Collection Program and local processing program	793	7.6%
School Collection & Drop-off of Newspaper	51	0.5%
Residential Curbside Recycling Program[2]	51	0.5%
Total	1,405	13.5%

[1] Existing diversion (1990) without inert solids.
2 Proposed program entailing collection of CA redemption value materials by a non-profit organization.

8.0 SOLID WASTE GENERATION PROJECTIONS

Revised fifteen-year projections of the waste disposal and diversion quantities by material type expected to be realized before and after the City implements the waste diversion programs described in Section 6.0 Proposed Alternative Waste Diversion Plan, above and presented in Section 7.0 Medium-Term Diversion Programs, are provided in Appendix II. These fifteen-year projections are based on the revised baseline waste generation data that excludes the inert solids that are diverted. A projected growth rate of 2.2% per year was assumed, based on the City's SRRE.

Table 6

TENTATIVE MEDIUM-TERM DIVERSION PROGRAMS
Estimated Material Diversion

Program	Material Diversion %
Source Reduction Programs	
1. Public Education/Technical Assistance	0.8%
2. Rate Modification	0%
3. Regulatory Programs	0%
Recycling Programs	
4. Residential Curbside Recycling	8.3%
5. Multi-family Curbside Recycling	2.1%
6. Commercial/Industrial Recycling a. Material Recovery Operation	10.2%
7. County Landfill Salvage Programs[1]	6.4%
Composting Programs	
8. Residential Yard Waste Collection	6.4%
9. Yard and Wood Waste Drop-off a. Collect Alternative Feedstocks	11.0%
10. Windrow Composting System[2]	N/A
Special Waste Programs	
11. Land Application of Sewage Sludge[3]	N/A
Education and Public Information Programs	
12. through 15.	N/A
Program Coordinator for Recycling/ Composting/Public Education Programs	N/A
TOTAL	45.2%[4]

[1] May be implemented in the short-term planning period.
[2] Diversion percentage included in above programs.
[3] May be counted towards diversion goal in the future.
[4] With existing diversion of 4.9%, total future diversion would be 50.1%.
Source: Source Reduction and Recycling Element, City of Lindsay, April 1992.

Appendix I

Solid Waste Generation Profiles

City of Lindsay - Waste Disposal Profile (1991 Landfill Sampling Data)

	Residential	Commercial	Industrial	Self Haul	Total
OCC/Kraft	5.74%	14.97%	12.64%	6.08%	8.57%
Magazines	1.33%	0.93%	0.10%	0.61%	0.96%
Mixed Paper	9.23%	10.42%	5.98%	3.99%	7.89%
Newsprint	7.14%	3.99%	0.51%	1.91%	4.51%
High Grade	0.71%	3.11%	0.77%	0.80%	1.34%
Other Paper	6.58%	8.07%	2.98%	1.52%	5.34%
Subtotal Paper	**30.73%**	**41.49%**	**22.98%**	**14.91%**	**28.61%**
HDPE	1.05%	1.04%	1.28%	0.21%	0.83%
PET	0.40%	0.19%	0.02%	0.08%	0.24%
Film Plastics	3.40%	3.72%	5.02%	1.03%	2.92%
Polystyrene	0.45%	0.70%	0.34%	0.87%	0.62%
Other Plastic	2.73%	3.20%	3.05%	1.40%	2.50%
Subtotal Plastic	**8.03%**	**8.85%**	**9.71%**	**3.59%**	**7.10%**
Refillable Beverage	0.05%	0.00%	0.00%	0.15%	0.06%
CA Redemption Value	1.26%	1.13%	0.18%	0.80%	1.04%
Other Recyclable	2.51%	2.02%	0.31%	0.48%	1.69%
Other Non-Recyclable	0.61%	0.66%	0.04%	0.34%	0.51%
Subtotal Glass	**4.43%**	**3.81%**	**0.53%**	**1.77%**	**3.31%**
Aluminum Cans	0.30%	0.24%	0.02%	0.10%	0.21%
Other Aluminum	0.30%	0.38%	0.05%	0.04%	0.23%
Bi-metal Cans	0.00%	0.00%	0.10%	0.44%	0.13%
Steel Food & Bev. Cans	2.38%	1.47%	0.04%	0.34%	1.45%
Other Ferrous	2.48%	4.72%	2.76%	3.14%	3.25%
Other Non-ferrous	0.09%	0.06%	0.05%	0.02%	0.06%
White Goods	0.00%	0.00%	0.15%	0.96%	0.28%
Subtotal Metal	**5.55%**	**6.87%**	**3.17%**	**5.04%**	**5.60%**
Leaves and Grass	16.15%	4.21%	1.77%	9.26%	10.38%
Branches and Brush	5.27%	2.21%	10.67%	15.67%	7.70%
Subtotal Yard Waste	**21.42%**	**6.42%**	**12.44%**	**24.93%**	**18.08%**
Food	12.40%	9.51%	2.29%	3.53%	8.62%
Rubber/Tires	0.53%	1.77%	0.06%	1.10%	0.97%
Wood	1.68%	4.07%	22.33%	15.63%	7.36%
Agri. Crop Residue	0.00%	0.38%	1.42%	1.23%	0.52%
Manure	0.06%	0.00%	0.00%	0.97%	0.29%
Textiles/Leather	3.83%	3.72%	5.33%	2.80%	3.60%
Diapers	4.53%	2.70%	0.10%	0.44%	2.67%
Other Organics	2.10%	2.55%	0.36%	0.82%	1.76%
Subtotal Organics	**25.13%**	**24.70%**	**31.89%**	**26.52%**	**25.80%**
Inert Solids	3.04%	6.46%	18.65%	15.30%	8.21%
Hazardous Waste	0.47%	0.83%	0.01%	0.04%	0.41%
Appliances	0.51%	0.57%	0.03%	0.29%	0.44%
Subtotal Other Wastes	**4.02%**	**7.86%**	**18.69%**	**15.63%**	**9.07%**
Ash	0.00%	0.00%	0.02%	1.91%	0.53%
Sewage Sludge	0.00%	0.00%	0.00%	0.00%	0.00%
Industrial Sludge	0.00%	0.00%	0.00%	0.00%	0.00%
Asbestos	0.00%	0.00%	0.00%	0.00%	0.00%
Auto Shredder Waste	0.00%	0.00%	0.00%	0.00%	0.00%
Auto Bodies	0.00%	0.00%	0.20%	0.00%	0.01%
Stuffed Furn./Mattresses	0.69%	0.00%	0.37%	5.70%	1.89%
Subtotal Special Wastes	**0.69%**	**0.00%**	**0.59%**	**7.61%**	**2.43%**
Total	**100.00%**	**100.00%**	**100.00%**	**100.00%**	**100.00%**

City of Lindsay Waste Generation (Tons/Year - 1990)

Component	Disposal					Trans-formation	Diversion	Generation Total
	Residential	Commercial	Industrial	Self Haul	Total			
OCC/Kraft	202	324	63	145	734	0	247	981
Magazines	47	20	0	15	82	0	0	82
Mixed Paper	325	226	30	95	676	0	2	678
Newsprint	252	86	3	45	386	0	0	386
High Grade	25	67	4	19	115	0	0	115
Other Paper	232	175	15	36	458	0	0	458
Paper	**1,083**	**898**	**114**	**355**	**2,451**	**0**	**249**	**2,700**
HDPE	37	23	6	5	71	0	0	71
PET	14	4	0	2	20	0	3	23
Film Plastics	120	81	25	25	250	0	0	250
Polystyrene	16	15	2	21	53	0	0	53
Other Plastic	96	69	15	33	214	0	1	215
Plastic	**283**	**192**	**48**	**85**	**608**	**0**	**4**	**612**
Refillable Bev.	2	0	0	4	5	0	0	5
CA Redem. Value	44	24	1	19	89	0	26	115
Other Recyclable	88	44	2	11	145	0	9	154
Other Non-Recyc.	22	14	0	8	44	0	0	44
Glass	**156**	**82**	**3**	**42**	**283**	**0**	**35**	**318**
Aluminum Cans	11	5	0	2	18	0	88	106
Other Aluminum	11	8	0	1	20	0	12	32
Bi-metal Cans	0	0	0	10	11	0	0	11
Steel Cans	84	32	0	8	124	0	0	124
Other Ferrous	87	102	14	75	278	0	43	321
Other Non-ferrous	3	1	0	0	5	0	0	5
White Goods	0	0	1	23	24	0	14	38
Metals	**196**	**149**	**16**	**120**	**480**	**0**	**157**	**637**
Leaves/Grass	569	91	9	220	890	16	0	906
Branches/Brush	186	48	53	373	659	304	0	963
Yard Waste	**755**	**139**	**62**	**593**	**1,549**	**320**	**0**	**1,869**
Food	437	206	11	84	738	0	0	738
Rubber/Tires	19	38	0	26	83	16	0	100
Wood	59	68	111	372	630	0	12	642
Agri.Crop Residue	0	8	7	29	45	0	0	45
Manure	2	0	0	23	25	0	0	25
Textiles/Leather	135	81	26	67	309	0	0	309
Diapers	160	58	0	10	229	0	0	229
Other Organics	74	55	2	20	151	0	0	151
Organics	**886**	**535**	**158**	**631**	**2,210**	**16**	**12**	**2,238**
Inert Solids	107	140	93	364	704	0	0	704
Hazardous Waste	17	18	0	1	36	0	0	36
Appliances	18	12	0	7	37	0	0	37
Other Waste	**142**	**170**	**93**	**372**	**777**	**0**	**0**	**777**
Ash	0	0	0	45	46	0	0	46
Sewage Sludge	0	0	0	0	0	0	0	0
Industrial Sludge	0	0	0	0	0	0	0	0
Asbestos	0	0	0	0	0	0	0	0
Auto Shred. Wst.	0	0	0	0	0	0	0	0
Auto Bodies	0	0	1	0	1	0	0	1
Stuffed Furn./Matt.	24	0	2	136	162	0	0	162
Special Waste	**24**	**0**	**3**	**181**	**208**	**0**	**0**	**208**
Total	**3,525**	**2,165**	**496**	**2,380**	**8,567**	**336**	**457**	**9,360**

Appendix II

15-Year Projections of Waste Disposal and Diversion

Existing Conditions and With Program Implementation

15 YEAR WASTE GENERATION PROJECTIONS - City of Lindsay

Existing Conditions

WASTE TYPE	1991				1992			
	Disposal	Diversion	Generation	Diversion Percent	Disposal	Diversion	Generation	Diversion Percent
Paper								
OCC/Kraft	750	252	1,003	25.2%	767	258	1,025	25.2%
Magazines	84	0	84	0.0%	86	0	86	0.0%
Mixed Paper	691	2	693	0.3%	706	2	708	0.3%
Newspaper	394	0	394	0.0%	403	0	403	0.0%
High Grade	118	0	118	0.0%	120	0	120	0.0%
Other Paper	468	0	468	0.0%	478	0	478	0.0%
Subtotal	**2,505**	**254**	**2,759**	**9.2%**	**2,560**	**260**	**2,820**	**9.2%**
Plastic								
HDPE	73	0	73	0.0%	74	0	74	0.0%
PET	20	3	24	13.0%	21	3	24	13.0%
Film Plastics	256	0	256	0.0%	261	0	261	0.0%
Polystyrene	54	0	54	0.0%	55	0	55	0.0%
Other Plastic	219	1	220	0.5%	224	1	225	0.5%
Subtotal	**621**	**4**	**625**	**0.7%**	**635**	**4**	**639**	**0.7%**
Glass								
Refillable Beverage	5	0	5	0.0%	5	0	5	0.0%
CA Redemption Value	91	27	118	22.6%	93	27	120	22.6%
Other Recyclable	148	9	157	5.8%	151	9	161	5.8%
Other Non-recyclable	45	0	45	0.0%	46	0	46	0.0%
Subtotal	**289**	**36**	**325**	**11.0%**	**296**	**37**	**332**	**11.0%**
Metals								
Aluminum Cans	18	90	108	83.0%	19	92	111	83.0%
Other Aluminum	20	12	33	37.5%	21	13	33	37.5%
Bi-metal Cans	11	0	11	0.0%	11	0	11	0.0%
Steel Food & Bev. Cans	127	0	127	0.0%	130	0	130	0.0%
Other Ferrous	284	44	328	13.4%	290	45	335	13.4%
Other Non-ferrous	5	0	5	0.0%	5	0	5	0.0%
White Goods	25	14	39	36.8%	25	15	40	36.8%
Subtotal	**491**	**160**	**651**	**24.6%**	**501**	**164**	**665**	**24.6%**
Yard Waste								
Leaves and Grass	926	0	926	0.0%	946	0	946	0.0%
Branches and Brush	984	0	984	0.0%	1,006	0	1,006	0.0%
Subtotal	**1,910**	**0**	**1,910**	**0.0%**	**1,952**	**0**	**1,952**	**0.0%**
Organics								
Food	754	0	754	0.0%	771	0	771	0.0%
Rubber/Tires	101	0	101	0.0%	103	0	103	0.0%
Wood	644	12	656	1.9%	658	13	671	1.9%
Agri. Crop Residue	46	0	46	0.0%	47	0	47	0.0%
Manure	26	0	26	0.0%	26	0	26	0.0%
Textiles/Leather	316	0	316	0.0%	323	0	323	0.0%
Diapers	234	0	234	0.0%	239	0	239	0.0%
Other Organics	154	0	154	0.0%	158	0	158	0.0%
Subtotal	**2,275**	**12**	**2,287**	**0.5%**	**2,325**	**13**	**2,338**	**0.5%**
Other Wastes								
Inert Solids	719	0	719	0.0%	735	0	735	0.0%
Hazardous Waste	37	0	37	0.0%	38	0	38	0.0%
Appliances	38	0	38	0.0%	39	0	39	0.0%
Subtotal	**794**	**0**	**794**	**0.0%**	**812**	**0**	**812**	**0.0%**
Ash	47	0	47	0.0%	48	0	48	0.0%
Sewage Sludge	0	0	0	0.0%	0	0	0	0.0%
Industrial Sludge	0	0	0	0.0%	0	0	0	0.0%
Asbestos	0	0	0	0.0%	0	0	0	0.0%
Auto Shredder Waste	0	0	0	0.0%	0	0	0	0.0%
Auto Bodies	1	0	1	0.0%	1	0	1	0.0%
Stuffed Furn./Mattresses	166	0	166	0.0%	169	0	169	0.0%
Subtotal	**214**	**0**	**214**	**0.0%**	**218**	**0**	**218**	**0.0%**
Total Waste	***9,099***	***467***	***9,566***	***4.9%***	***9,299***	***477***	***9,776***	***4.9%***

15 YEAR WASTE GENERATION PROJECTIONS - City of Lindsay

Existing Conditions

WASTE TYPE	1993				1994			
	Disposal	Diversion	Generation	Diversion Percent	Disposal	Diversion	Generation	Diversion Percent
Paper								
OCC/Kraft	784	264	1,047	25.2%	801	269	1,070	25.2%
Magazines	88	0	88	0.0%	89	0	89	0.0%
Mixed Paper	722	2	724	0.3%	737	2	740	0.3%
Newspaper	412	0	412	0.0%	421	0	421	0.0%
High Grade	123	0	123	0.0%	125	0	125	0.0%
Other Paper	489	0	489	0.0%	500	0	500	0.0%
Subtotal	**2,616**	**266**	**2,882**	**9.2%**	**2,674**	**272**	**2,946**	**9.2%**
Plastic								
HDPE	76	0	76	0.0%	77	0	77	0.0%
PET	21	3	25	13.0%	22	3	25	13.0%
Film Plastics	267	0	267	0.0%	273	0	273	0.0%
Polystyrene	57	0	57	0.0%	58	0	58	0.0%
Other Plastic	228	1	230	0.5%	233	1	235	0.5%
Subtotal	**649**	**4**	**653**	**0.7%**	**663**	**4**	**668**	**0.7%**
Glass								
Refillable Beverage	5	0	5	0.0%	5	0	5	0.0%
CA Redemption Value	95	28	123	22.6%	97	28	125	22.6%
Other Recyclable	155	10	164	5.8%	158	10	168	5.8%
Other Non-recyclable	47	0	47	0.0%	48	0	48	0.0%
Subtotal	**302**	**37**	**339**	**11.0%**	**309**	**38**	**347**	**11.0%**
Metals								
Aluminum Cans	19	94	113	83.0%	20	96	116	83.0%
Other Aluminum	21	13	34	37.5%	22	13	35	37.5%
Bi-metal Cans	12	0	12	0.0%	12	0	12	0.0%
Steel Food & Bev. Cans	132	0	132	0.0%	135	0	135	0.0%
Other Ferrous	297	46	343	13.4%	303	47	350	13.4%
Other Non-ferrous	5	0	5	0.0%	5	0	5	0.0%
White Goods	26	15	41	36.8%	26	15	41	36.8%
Subtotal	**512**	**168**	**680**	**24.6%**	**524**	**171**	**695**	**24.6%**
Yard Waste								
Leaves and Grass	967	0	967	0.0%	988	0	988	0.0%
Branches and Brush	1,028	0	1,028	0.0%	1,051	0	1,051	0.0%
Subtotal	**1,995**	**0**	**1,995**	**0.0%**	**2,039**	**0**	**2,039**	**0.0%**
Organics								
Food	788	0	788	0.0%	805	0	805	0.0%
Rubber/Tires	106	0	106	0.0%	108	0	108	0.0%
Wood	673	13	685	1.9%	687	13	700	1.9%
Agri. Crop Residue	48	0	48	0.0%	49	0	49	0.0%
Manure	27	0	27	0.0%	27	0	27	0.0%
Textiles/Leather	330	0	330	0.0%	337	0	337	0.0%
Diapers	244	0	244	0.0%	250	0	250	0.0%
Other Organics	161	0	161	0.0%	165	0	165	0.0%
Subtotal	**2,376**	**13**	**2,389**	**0.5%**	**2,428**	**13**	**2,442**	**0.5%**
Other Wastes								
Inert Solids	751	0	751	0.0%	768	0	768	0.0%
Hazardous Waste	38	0	38	0.0%	39	0	39	0.0%
Appliances	39	0	39	0.0%	40	0	40	0.0%
Subtotal	**829**	**0**	**829**	**0.0%**	**848**	**0**	**848**	**0.0%**
Ash	49	0	49	0.0%	50	0	50	0.0%
Sewage Sludge	0	0	0	0.0%	0	0	0	0.0%
Industrial Sludge	0	0	0	0.0%	0	0	0	0.0%
Asbestos	0	0	0	0.0%	0	0	0	0.0%
Auto Shredder Waste	0	0	0	0.0%	0	0	0	0.0%
Auto Bodies	1	0	1	0.0%	1	0	1	0.0%
Stuffed Furn./Mattresses	173	0	173	0.0%	177	0	177	0.0%
Subtotal	**223**	**0**	**223**	**0.0%**	**228**	**0**	**228**	**0.0%**
Total Waste	**9,504**	**438**	**9,991**	**4.9%**	**9,713**	**499**	**10,211**	**4.9%**

15 YEAR WASTE GENERATION PROJECTIONS - City of Lindsay

Existing Conditions

WASTE TYPE	1995				1996			
	Disposal	Diversion	Generation	Diversion Percent	Disposal	Diversion	Generation	Diversion Percent
Paper								
OCC/Kraft	818	275	1,094	25.2%	836	281	1,118	25.2%
Magazines	91	0	91	0.0%	93	0	93	0.0%
Mixed Paper	754	2	756	0.3%	770	2	773	0.3%
Newspaper	430	0	430	0.0%	440	0	440	0.0%
High Grade	128	0	128	0.0%	131	0	131	0.0%
Other Paper	511	0	511	0.0%	522	0	522	0.0%
Subtotal	**2,733**	**278**	**3,010**	**9.2%**	**2,793**	**284**	**3,077**	**9.2%**
Plastic								
HDPE	79	0	79	0.0%	81	0	81	0.0%
PET	22	3	26	13.0%	23	3	26	13.0%
Film Plastics	279	0	279	0.0%	285	0	285	0.0%
Polystyrene	59	0	59	0.0%	60	0	60	0.0%
Other Plastic	239	1	240	0.5%	244	1	245	0.5%
Subtotal	**678**	**4**	**682**	**0.7%**	**693**	**5**	**697**	**0.7%**
Glass								
Refilliable Beverage	6	0	6	0.0%	6	0	6	0.0%
CA Redemption Value	99	29	128	22.6%	101	30	131	22.6%
Other Recyclable	162	10	172	5.8%	165	10	175	5.8%
Other Non-recyclable	49	0	49	0.0%	50	0	50	0.0%
Subtotal	**316**	**39**	**355**	**11.0%**	**322**	**40**	**362**	**11.0%**
Metals								
Aluminum Cans	20	98	118	83.0%	21	100	121	83.0%
Other Aluminum	22	13	36	37.5%	23	14	36	37.5%
Bi-metal Cans	12	0	12	0.0%	13	0	13	0.0%
Steel Food & Bev. Cans	138	0	138	0.0%	141	0	141	0.0%
Other Ferrous	310	48	358	13.4%	317	49	366	13.4%
Other Non-ferrous	6	0	6	0.0%	6	0	6	0.0%
White Goods	27	16	42	36.8%	27	16	43	36.8%
Subtotal	**535**	**175**	**710**	**24.6%**	**547**	**179**	**726**	**24.6%**
Yard Waste								
Leaves and Grass	1,010	0	1,010	0.0%	1,032	0	1,032	0.0%
Branches and Brush	1,074	0	1,074	0.0%	1,097	0	1,097	0.0%
Subtotal	**2,084**	**0**	**2,084**	**0.0%**	**2,130**	**0**	**2,130**	**0.0%**
Organics								
Food	823	0	823	0.0%	841	0	841	0.0%
Rubber/Tires	110	0	110	0.0%	113	0	113	0.0%
Wood	702	13	716	1.9%	718	14	732	1.9%
Agri. Crop Residue	50	0	50	0.0%	51	0	51	0.0%
Manure	28	0	28	0.0%	28	0	28	0.0%
Textiles/Leather	345	0	345	0.0%	352	0	352	0.0%
Diapers	255	0	255	0.0%	261	0	261	0.0%
Other Organics	168	0	168	0.0%	172	0	172	0.0%
Subtotal	**2,482**	**13**	**2,495**	**0.5%**	**2,536**	**14**	**2,550**	**0.5%**
Other Wastes								
Inert Solids	785	0	785	0.0%	802	0	802	0.0%
Hazardous Waste	40	0	40	0.0%	41	0	41	0.0%
Appliances	41	0	41	0.0%	42	0	42	0.0%
Subtotal	**866**	**0**	**866**	**0.0%**	**885**	**0**	**885**	**0.0%**
Ash	51	0	51	0.0%	52	0	52	0.0%
Sewage Sludge	0	0	0	0.0%	0	0	0	0.0%
Industrial Sludge	0	0	0	0.0%	0	0	0	0.0%
Asbestos	0	0	0	0.0%	0	0	0	0.0%
Auto Shredder Waste	0	0	0	0.0%	0	0	0	0.0%
Auto Bodies	1	0	1	0.0%	1	0	1	0.0%
Stuffed Furn./Mattresses	181	0	181	0.0%	185	0	185	0.0%
Subtotal	**233**	**0**	**233**	**0.0%**	**238**	**0**	**238**	**0.0%**
Total Waste	**9,926**	**510**	**10,436**	**4.9%**	**10,145**	**521**	**10,666**	**4.9%**

15 YEAR WASTE GENERATION PROJECTIONS - City of Lindsay

Existing Conditions

WASTE TYPE	1997				1998			
	Disposal	Diversion	Generation	Diversion Percent	Disposal	Diversion	Generation	Diversion Percent
Paper								
OCC/Kraft	855	288	1,142	25.2%	874	294	1,168	25.2%
Magazines	95	0	95	0.0%	98	0	98	0.0%
Mixed Paper	787	2	790	0.3%	805	2	807	0.3%
Newspaper	450	0	450	0.0%	459	0	459	0.0%
High Grade	134	0	134	0.0%	137	0	137	0.0%
Other Paper	533	0	533	0.0%	545	0	545	0.0%
Subtotal	**2,854**	**290**	**3,144**	**9.2%**	**2,917**	**296**	**3,213**	**9.2%**
Plastic								
HDPE	83	0	83	0.0%	85	0	85	0.0%
PET	23	3	27	13.0%	24	4	27	13.0%
Film Plastics	291	0	291	0.0%	298	0	298	0.0%
Polystyrene	62	0	62	0.0%	63	0	63	0.0%
Other Plastic	249	1	250	0.5%	255	1	256	0.5%
Subtotal	**708**	**5**	**713**	**0.7%**	**724**	**5**	**728**	**0.7%**
Glass								
Refillable Beverage	6	0	6	0.0%	6	0	6	0.0%
CA Redemption Value	104	30	134	22.6%	106	31	137	22.6%
Other Recyclable	169	10	179	5.8%	173	11	183	5.8%
Other Non-recyclable	51	0	51	0.0%	52	0	52	0.0%
Subtotal	**330**	**41**	**370**	**11.0%**	**337**	**42**	**378**	**11.0%**
Metals								
Aluminum Cans	21	102	123	83.0%	21	105	126	83.0%
Other Aluminum	23	14	37	37.5%	24	14	38	37.5%
Bi-metal Cans	13	0	13	0.0%	13	0	13	0.0%
Steel Food & Bev. Cans	144	0	144	0.0%	148	0	148	0.0%
Other Ferrous	324	50	374	13.4%	331	51	382	13.4%
Other Non-ferrous	6	0	6	0.0%	6	0	6	0.0%
White Goods	28	16	44	36.8%	29	17	45	36.8%
Subtotal	**559**	**183**	**742**	**24.6%**	**571**	**187**	**758**	**24.6%**
Yard Waste								
Leaves and Grass	1,055	0	1,055	0.0%	1,078	0	1,078	0.0%
Branches and Brush	1,121	0	1,121	0.0%	1,146	0	1,146	0.0%
Subtotal	**2,177**	**0**	**2,177**	**0.0%**	**2,224**	**0**	**2,224**	**0.0%**
Organics								
Food	859	0	859	0.0%	878	0	878	0.0%
Rubber/Tires	115	0	115	0.0%	118	0	118	0.0%
Wood	734	14	748	1.9%	750	14	764	1.9%
Agri. Crop Residue	52	0	52	0.0%	54	0	54	0.0%
Manure	29	0	29	0.0%	30	0	30	0.0%
Textiles/Leather	360	0	360	0.0%	368	0	368	0.0%
Diapers	267	0	267	0.0%	273	0	273	0.0%
Other Organics	176	0	176	0.0%	180	0	180	0.0%
Subtotal	**2,592**	**14**	**2,606**	**0.5%**	**2,649**	**14**	**2,664**	**0.5%**
Other Wastes								
Inert Solids	820	0	820	0.0%	838	0	838	0.0%
Hazardous Waste	42	0	42	0.0%	43	0	43	0.0%
Appliances	43	0	43	0.0%	44	0	44	0.0%
Subtotal	**905**	**0**	**905**	**0.0%**	**925**	**0**	**925**	**0.0%**
Ash	54	0	54	0.0%	55	0	55	0.0%
Sewage Sludge	0	0	0	0.0%	0	0	0	0.0%
Industrial Sludge	0	0	0	0.0%	0	0	0	0.0%
Asbestos	0	0	0	0.0%	0	0	0	0.0%
Auto Shredder Waste	0	0	0	0.0%	0	0	0	0.0%
Auto Bodies	1	0	1	0.0%	1	0	1	0.0%
Stuffed Furn./Mattresses	189	0	189	0.0%	193	0	193	0.0%
Subtotal	**243**	**0**	**243**	**0.0%**	**249**	**0**	**249**	**0.0%**
Total Waste	**10,368**	**532**	**10,900**	**4.9%**	**10,596**	**544**	**11,140**	**4.9%**

15 YEAR WASTE GENERATION PROJECTIONS - City of Lindsay

Existing Conditions

WASTE TYPE	1999 Disposal	1999 Diversion	1999 Generation	1999 Diversion Percent	2000 Disposal	2000 Diversion	2000 Generation	2000 Diversion Percent
per								
OCC/Kraft	893	300	1,193	25.2%	912	307	1,219	25.2%
Magazines	100	0	100	0.0%	102	0	102	0.0%
Mixed Paper	822	2	825	0.3%	840	2	843	0.3%
Newspaper	470	0	470	0.0%	480	0	480	0.0%
High Grade	140	0	140	0.0%	143	0	143	0.0%
Other Paper	557	0	557	0.0%	569	0	569	0.0%
Subtotal	**2,981**	**303**	**3,284**	**9.2%**	**3,047**	**310**	**3,356**	**9.2%**
astic								
HDPE	86	0	86	0.0%	88	0	88	0.0%
PET	24	4	28	13.0%	25	4	29	13.0%
Film Plastics	304	0	304	0.0%	311	0	311	0.0%
Polystyrene	64	0	64	0.0%	66	0	66	0.0%
Other Plastic	260	1	262	0.5%	266	1	267	0.5%
Subtotal	**740**	**5**	**744**	**0.7%**	**756**	**5**	**761**	**0.7%**
ass								
Refillable Beverage	6	0	6	0.0%	6	0	6	0.0%
CA Redemption Value	108	32	140	22.6%	111	32	143	22.6%
Other Recyclable	176	11	187	5.8%	180	11	191	5.8%
Other Non-recyclable	54	0	54	0.0%	55	0	55	0.0%
Subtotal	**344**	**43**	**387**	**11.0%**	**352**	**44**	**395**	**11.0%**
etals								
Aluminum Cans	22	107	129	83.0%	22	109	132	83.0%
Other Aluminum	24	15	39	37.5%	25	15	40	37.5%
Bi-metal Cans	13	0	13	0.0%	14	0	14	0.0%
Steel Food & Bev. Cans	151	0	151	0.0%	154	0	154	0.0%
Other Ferrous	338	52	390	13.4%	346	53	399	13.4%
Other Non-ferrous	6	0	6	0.0%	6	0	6	0.0%
White Goods	29	17	46	36.8%	30	17	47	36.8%
Subtotal	**584**	**191**	**775**	**24.6%**	**597**	**195**	**792**	**24.6%**
ırd Waste								
Leaves and Grass	1,102	0	1,102	0.0%	1,126	0	1,126	0.0%
Branches and Brush	1,171	0	1,171	0.0%	1,197	0	1,197	0.0%
Subtotal	**2,273**	**0**	**2,273**	**0.0%**	**2,323**	**0**	**2,323**	**0.0%**
ganics								
Food	898	0	898	0.0%	917	0	917	0.0%
Rubber/Tires	120	0	120	0.0%	123	0	123	0.0%
Wood	766	15	781	1.9%	783	15	798	1.9%
Agri. Crop Residue	55	0	55	0.0%	56	0	56	0.0%
Manure	30	0	30	0.0%	31	0	31	0.0%
Textiles/Leather	376	0	376	0.0%	384	0	384	0.0%
Diapers	279	0	279	0.0%	285	0	285	0.0%
Other Organics	184	0	184	0.0%	188	0	188	0.0%
Subtotal	**2,708**	**15**	**2,722**	**0.5%**	**2,767**	**15**	**2,782**	**0.5%**
her Wastes								
Inert Solids	856	0	856	0.0%	875	0	875	0.0%
Hazardous Waste	44	0	44	0.0%	45	0	45	0.0%
Appliances	45	0	45	0.0%	46	0	46	0.0%
Subtotal	**945**	**0**	**945**	**0.0%**	**966**	**0**	**966**	**0.0%**
Ash	56	0	56	0.0%	57	0	57	0.0%
Sewage Sludge	0	0	0	0.0%	0	0	0	0.0%
Industrial Sludge	0	0	0	0.0%	0	0	0	0.0%
Asbestos	0	0	0	0.0%	0	0	0	0.0%
Auto Shredder Waste	0	0	0	0.0%	0	0	0	0.0%
Auto Bodies	1	0	1	0.0%	1	0	1	0.0%
Stuffed Furn./Mattresses	197	0	197	0.0%	201	0	201	0.0%
Subtotal	**254**	**0**	**254**	**0.0%**	**260**	**0**	**260**	**0.0%**
Total Waste	**10,829**	**556**	**11,385**	**4.9%**	**11,067**	**568**	**11,635**	**4.9%**

15 YEAR WASTE GENERATION PROJECTIONS - City of Lindsay

Existing Conditions

WASTE TYPE	2001				2002			
	Disposal	Diversion	Generation	Diversion Percent	Disposal	Diversion	Generation	Diversion Percent
Paper								
OCC/Kraft	933	314	1,246	25.2%	953	321	1,274	25.2%
Magazines	104	0	104	0.0%	106	0	106	0.0%
Mixed Paper	859	3	861	0.3%	878	3	880	0.3%
Newspaper	490	0	490	0.0%	501	0	501	0.0%
High Grade	146	0	146	0.0%	149	0	149	0.0%
Other Paper	582	0	582	0.0%	595	0	595	0.0%
Subtotal	**3,114**	**316**	**3,430**	**9.2%**	**3,182**	**323**	**3,506**	**9.2%**
Plastic								
HDPE	90	0	90	0.0%	92	0	92	0.0%
PET	25	4	29	13.0%	26	4	30	13.0%
Film Plastics	318	0	318	0.0%	325	0	325	0.0%
Polystyrene	67	0	67	0.0%	69	0	69	0.0%
Other Plastic	272	1	273	0.5%	278	1	279	0.5%
Subtotal	**772**	**5**	**778**	**0.7%**	**789**	**5**	**795**	**0.7%**
Glass								
Refillable Beverage	6	0	6	0.0%	6	0	6	0.0%
CA Redemption Value	113	33	146	22.6%	116	34	149	22.6%
Other Recyclable	184	11	196	5.8%	188	12	200	5.8%
Other Non-recyclable	56	0	56	0.0%	57	0	57	0.0%
Subtotal	**360**	**44**	**404**	**11.0%**	**367**	**45**	**413**	**11.0%**
Metals								
Aluminum Cans	23	112	135	83.0%	23	114	138	83.0%
Other Aluminum	25	15	41	37.5%	26	16	42	37.5%
Bi-metal Cans	14	0	14	0.0%	14	0	14	0.0%
Steel Food & Bev. Cans	158	0	158	0.0%	161	0	161	0.0%
Other Ferrous	353	55	408	13.4%	361	56	417	13.4%
Other Non-ferrous	6	0	6	0.0%	6	0	6	0.0%
White Goods	30	18	48	36.8%	31	18	49	36.8%
Subtotal	**610**	**199**	**809**	**24.6%**	**623**	**204**	**827**	**24.6%**
Yard Waste								
Leaves and Grass	1,151	0	1,151	0.0%	1,176	0	1,176	0.0%
Branches and Brush	1,223	0	1,223	0.0%	1,250	0	1,250	0.0%
Subtotal	**2,374**	**0**	**2,374**	**0.0%**	**2,427**	**0**	**2,427**	**0.0%**
Organics								
Food	938	0	938	0.0%	958	0	958	0.0%
Rubber/Tires	126	0	126	0.0%	129	0	129	0.0%
Wood	800	15	816	1.9%	818	16	834	1.9%
Agri. Crop Residue	57	0	57	0.0%	58	0	58	0.0%
Manure	32	0	32	0.0%	32	0	32	0.0%
Textiles/Leather	393	0	393	0.0%	401	0	401	0.0%
Diapers	291	0	291	0.0%	297	0	297	0.0%
Other Organics	192	0	192	0.0%	196	0	196	0.0%
Subtotal	**2,828**	**15**	**2,843**	**0.5%**	**2,890**	**16**	**2,906**	**0.5%**
Other Wastes								
Inert Solids	894	0	894	0.0%	914	0	914	0.0%
Hazardous Waste	46	0	46	0.0%	47	0	47	0.0%
Appliances	47	0	47	0.0%	48	0	48	0.0%
Subtotal	**987**	**0**	**987**	**0.0%**	**1,009**	**0**	**1,009**	**0.0%**
Ash	58	0	58	0.0%	60	0	60	0.0%
Sewage Sludge	0	0	0	0.0%	0	0	0	0.0%
Industrial Sludge	0	0	0	0.0%	0	0	0	0.0%
Asbestos	0	0	0	0.0%	0	0	0	0.0%
Auto Shredder Waste	0	0	0	0.0%	0	0	0	0.0%
Auto Bodies	1	0	1	0.0%	1	0	1	0.0%
Stuffed Furn./Mattresses	206	0	206	0.0%	210	0	210	0.0%
Subtotal	**266**	**0**	**266**	**0.0%**	**271**	**0**	**271**	**0.0%**
Total Waste	**11,311**	**581**	**11,891**	**4.9%**	**11,560**	**593**	**12,153**	**4.9%**

15 YEAR WASTE GENERATION PROJECTIONS - City of Lindsay

Existing Conditions

WASTE TYPE	2003				2004			
	Disposal	Diversion	Generation	Diversion Percent	Disposal	Diversion	Generation	Diversion Percent
Paper								
OCC/Kraft	974	328	1,302	25.2%	995	335	1,330	25.2%
Magazines	109	0	109	0.0%	111	0	111	0.0%
Mixed Paper	897	3	900	0.3%	917	3	919	0.3%
Newspaper	512	0	512	0.0%	523	0	523	0.0%
High Grade	153	0	153	0.0%	156	0	156	0.0%
Other Paper	608	0	608	0.0%	621	0	621	0.0%
Subtotal	**3,252**	**330**	**3,583**	**9.2%**	**3,324**	**338**	**3,662**	**9.2%**
Plastic								
HDPE	94	0	94	0.0%	96	0	96	0.0%
PET	27	4	31	13.0%	27	4	31	13.0%
Film Plastics	332	0	332	0.0%	339	0	339	0.0%
Polystyrene	70	0	70	0.0%	72	0	72	0.0%
Other Plastic	284	1	285	0.5%	290	1	292	0.5%
Subtotal	**807**	**5**	**812**	**0.7%**	**825**	**5**	**830**	**0.7%**
Glass								
Refillable Beverage	7	0	7	0.0%	7	0	7	0.0%
CA Redemption Value	118	35	153	22.6%	121	35	156	22.6%
Other Recyclable	192	12	204	5.8%	197	12	209	5.8%
Other Non-recyclable	58	0	58	0.0%	60	0	60	0.0%
Subtotal	**376**	**46**	**422**	**11.0%**	**384**	**47**	**431**	**11.0%**
Metals								
Aluminum Cans	24	117	141	83.0%	24	119	144	83.0%
Other Aluminum	27	16	42	37.5%	27	16	43	37.5%
Bi-metal Cans	15	0	15	0.0%	15	0	15	0.0%
Steel Food & Bev. Cans	165	0	165	0.0%	168	0	168	0.0%
Other Ferrous	369	57	426	13.4%	377	58	435	13.4%
Other Non-ferrous	7	0	7	0.0%	7	0	7	0.0%
White Goods	32	19	50	36.8%	33	19	52	36.8%
Subtotal	**637**	**208**	**845**	**24.6%**	**651**	**213**	**864**	**24.6%**
Yard Waste								
Leaves and Grass	1,202	0	1,202	0.0%	1,229	0	1,229	0.0%
Branches and Brush	1,278	0	1,278	0.0%	1,306	0	1,306	0.0%
Subtotal	**2,480**	**0**	**2,480**	**0.0%**	**2,535**	**0**	**2,535**	**0.0%**
Organics								
Food	979	0	979	0.0%	1,001	0	1,001	0.0%
Rubber/Tires	131	0	131	0.0%	134	0	134	0.0%
Wood	836	16	852	1.9%	854	16	871	1.9%
Agri. Crop Residue	60	0	60	0.0%	61	0	61	0.0%
Manure	33	0	33	0.0%	34	0	34	0.0%
Textiles/Leather	410	0	410	0.0%	419	0	419	0.0%
Diapers	304	0	304	0.0%	311	0	311	0.0%
Other Organics	200	0	200	0.0%	205	0	205	0.0%
Subtotal	**2,954**	**16**	**2,970**	**0.5%**	**3,019**	**16**	**3,035**	**0.5%**
Other Wastes								
Inert Solids	934	0	934	0.0%	955	0	955	0.0%
Hazardous Waste	48	0	48	0.0%	49	0	49	0.0%
Appliances	49	0	49	0.0%	50	0	50	0.0%
Subtotal	**1,031**	**0**	**1,031**	**0.0%**	**1,054**	**0**	**1,054**	**0.0%**
Ash	61	0	61	0.0%	62	0	62	0.0%
Sewage Sludge	0	0	0	0.0%	0	0	0	0.0%
Industrial Sludge	0	0	0	0.0%	0	0	0	0.0%
Asbestos	0	0	0	0.0%	0	0	0	0.0%
Auto Shredder Waste	0	0	0	0.0%	0	0	0	0.0%
Auto Bodies	1	0	1	0.0%	1	0	1	0.0%
Stuffed Furn./Mattresses	215	0	215	0.0%	220	0	220	0.0%
Subtotal	**277**	**0**	**277**	**0.0%**	**283**	**0**	**283**	**0.0%**
Total Waste	**11,814**	**606**	**12,420**	**4.9%**	**12,074**	**620**	**12,694**	**4.9%**

15 YEAR WASTE GENERATION PROJECTIONS
City of Lindsay - Existing Conditions

WASTE TYPE	2005			
	Disposal	Diversion	Generation	Diversion Percent
Paper				
OCC/Kraft	1,017	342	1,360	25.2%
Magazines	114	0	114	0.0%
Mixed Paper	937	3	940	0.3%
Newspaper	535	0	535	0.0%
High Grade	159	0	159	0.0%
Other Paper	635	0	635	0.0%
Subtotal	**3,397**	**345**	**3,742**	**9.2%**
Plastic				
HDPE	98	0	98	0.0%
PET	28	4	32	13.0%
Film Plastics	347	0	347	0.0%
Polystyrene	73	0	73	0.0%
Other Plastic	297	1	298	0.5%
Subtotal	**843**	**6**	**848**	**0.7%**
Glass				
Refillable Beverage	7	0	7	0.0%
CA Redemption Value	123	36	159	22.6%
Other Recyclable	201	12	213	5.8%
Other Non-recyclable	61	0	61	0.0%
Subtotal	**392**	**49**	**441**	**11.0%**
Metals				
Aluminum Cans	25	122	147	83.0%
Other Aluminum	28	17	44	37.5%
Bi-metal Cans	15	0	15	0.0%
Steel Food & Bev. Cans	172	0	172	0.0%
Other Ferrous	385	60	445	13.4%
Other Non-ferrous	7	0	7	0.0%
White Goods	33	19	53	36.8%
Subtotal	**665**	**218**	**883**	**24.6%**
Yard Waste				
Leaves and Grass	1,256	0	1,256	0.0%
Branches and Brush	1,335	0	1,335	0.0%
Subtotal	**2,590**	**0**	**2,590**	**0.0%**
Organics				
Food	1,023	0	1,023	0.0%
Rubber/Tires	137	0	137	0.0%
Wood	873	17	890	1.9%
Agri. Crop Residue	62	0	62	0.0%
Manure	35	0	35	0.0%
Textiles/Leather	428	0	428	0.0%
Diapers	317	0	317	0.0%
Other Organics	209	0	209	0.0%
Subtotal	**3,085**	**17**	**3,102**	**0.5%**
Other Wastes				
Inert Solids	976	0	976	0.0%
Hazardous Waste	50	0	50	0.0%
Appliances	51	0	51	0.0%
Subtotal	**1,077**	**0**	**1,077**	**0.0%**
Ash	64	0	64	0.0%
Sewage Sludge	0	0	0	0.0%
Industrial Sludge	0	0	0	0.0%
Asbestos	0	0	0	0.0%
Auto Shredder Waste	0	0	0	0.0%
Auto Bodies	1	0	1	0.0%
Stuffed Furn./Mattresses	225	0	225	0.0%
Subtotal	**290**	**0**	**290**	**0.0%**
Total Waste	**12,340**	**633**	**12,973**	**4.9%**

15 YEAR WASTE GENERATION PROJECTIONS - City of Lindsay

With Program Implementation

WASTE TYPE	1991				1992			
	Disposal	Diversion	Generation	Diversion Percent	Disposal	Diversion	Generation	Diversion Percent
aper								
OCC/Kraft	750	252	1,003	25.2%	767	258	1,025	25.2%
Magazines	84	0	84	0.0%	86	0	86	0.0%
Mixed Paper	691	2	693	0.3%	706	2	708	0.3%
Newspaper	394	0	394	0.0%	403	0	403	0.0%
High Grade	118	0	118	0.0%	120	0	120	0.0%
Other Paper	468	0	468	0.0%	478	0	478	0.0%
Subtotal	**2,505**	**254**	**2,759**	**9.2%**	**2,560**	**260**	**2,820**	**9.2%**
lastic								
HDPE	73	0	73	0.0%	74	0	74	0.0%
PET	20	3	24	13.0%	21	3	24	13.0%
Film Plastics	256	0	256	0.0%	261	0	261	0.0%
Polystyrene	54	0	54	0.0%	55	0	55	0.0%
Other Plastic	219	1	220	0.5%	224	1	225	0.5%
Subtotal	**621**	**4**	**625**	**0.7%**	**635**	**4**	**639**	**0.7%**
lass								
Refillable Beverage	5	0	5	0.0%	5	0	5	0.0%
CA Redemption Value	91	27	118	22.6%	93	27	120	22.6%
Other Recyclable	148	9	157	5.8%	151	9	161	5.8%
Other Non-recyclable	45	0	45	0.0%	46	0	46	0.0%
Subtotal	**289**	**36**	**325**	**11.0%**	**296**	**37**	**332**	**11.0%**
letals								
Aluminum Cans	18	90	108	83.0%	19	92	111	83.0%
Other Aluminum	20	12	33	37.5%	21	13	33	37.5%
Bi-metal Cans	11	0	11	0.0%	11	0	11	0.0%
Steel Food & Bev. Cans	127	0	127	0.0%	130	0	130	0.0%
Other Ferrous	284	44	328	13.4%	290	45	335	13.4%
Other Non-ferrous	5	0	5	0.0%	5	0	5	0.0%
White Goods	25	14	39	36.8%	25	15	40	36.8%
Subtotal	**491**	**160**	**651**	**24.6%**	**501**	**164**	**665**	**24.6%**
ard Waste								
Leaves and Grass	926	0	926	0.0%	946	0	946	0.0%
Branches and Brush	984	0	984	0.0%	1,006	0	1,006	0.0%
Subtotal	**1,910**	**0**	**1,910**	**0.0%**	**1,952**	**0**	**1,952**	**0.0%**
rganics								
Food	754	0	754	0.0%	771	0	771	0.0%
Rubber/Tires	101	0	101	0.0%	103	0	103	0.0%
Wood	644	12	656	1.9%	658	13	671	1.9%
Agri. Crop Residue	46	0	46	0.0%	47	0	47	0.0%
Manure	26	0	26	0.0%	26	0	26	0.0%
Textiles/Leather	316	0	316	0.0%	323	0	323	0.0%
Diapers	234	0	234	0.0%	239	0	239	0.0%
Other Organics	154	0	154	0.0%	158	0	158	0.0%
Subtotal	**2,275**	**12**	**2,287**	**0.5%**	**2,325**	**13**	**2,338**	**0.5%**
ther Wastes								
Inert Solids	719	0	719	0.0%	735	0	735	0.0%
Hazardous Waste	37	0	37	0.0%	38	0	38	0.0%
Appliances	38	0	38	0.0%	39	0	39	0.0%
Subtotal	**794**	**0**	**794**	**0.0%**	**812**	**0**	**812**	**0.0%**
Ash	47	0	47	0.0%	48	0	48	0.0%
Sewage Sludge	0	0	0	0.0%	0	0	0	0.0%
Industrial Sludge	0	0	0	0.0%	0	0	0	0.0%
Asbestos	0	0	0	0.0%	0	0	0	0.0%
Auto Shredder Waste	0	0	0	0.0%	0	0	0	0.0%
Auto Bodies	1	0	1	0.0%	1	0	1	0.0%
Stuffed Furn./Mattresses	166	0	166	0.0%	169	0	169	0.0%
Subtotal	**214**	**0**	**214**	**0.0%**	**218**	**0**	**218**	**0.0%**
Total Waste	**9,099**	**467**	**9,566**	**4.9%**	**9,299**	**477**	**9,776**	**4.9%**

15 YEAR WASTE GENERATION PROJECTIONS - City of Lindsay

With Program Implementation

WASTE TYPE	1993 Disposal	1993 Diversion	1993 Generation	1993 Diversion Percent	1994 Disposal	1994 Diversion	1994 Generation	1994 Diversion Percent
Paper								
OCC/Kraft	784	264	1,047	25.2%	801	269	1,070	25.2%
Magazines	88	0	88	0.0%	89	0	89	0.0%
Mixed Paper	722	2	724	0.3%	737	2	740	0.3%
Newspaper	412	0	412	0.0%	421	0	421	0.0%
High Grade	123	0	123	0.0%	125	0	125	0.0%
Other Paper	489	0	489	0.0%	500	0	500	0.0%
Subtotal	**2,616**	**266**	**2,882**	**9.2%**	**2,674**	**272**	**2,946**	**9.2%**
Plastic								
HDPE	76	0	76	0.0%	77	0	77	0.0%
PET	21	3	25	13.0%	22	3	25	13.0%
Film Plastics	267	0	267	0.0%	273	0	273	0.0%
Polystyrene	57	0	57	0.0%	58	0	58	0.0%
Other Plastic	228	1	230	0.5%	233	1	235	0.5%
Subtotal	**649**	**4**	**653**	**0.7%**	**663**	**4**	**668**	**0.7%**
Glass								
Refillable Beverage	5	0	5	0.0%	5	0	5	0.0%
CA Redemption Value	95	28	123	22.6%	97	28	125	22.6%
Other Recyclable	155	10	164	5.8%	158	10	168	5.8%
Other Non-recyclable	47	0	47	0.0%	48	0	48	0.0%
Subtotal	**302**	**37**	**339**	**11.0%**	**309**	**38**	**347**	**11.0%**
Metals								
Aluminum Cans	19	94	113	83.0%	20	96	116	83.0%
Other Aluminum	21	13	34	37.5%	22	13	35	37.5%
Bi-metal Cans	12	0	12	0.0%	12	0	12	0.0%
Steel Food & Bev. Cans	132	0	132	0.0%	135	0	135	0.0%
Other Ferrous	297	46	343	13.4%	303	47	350	13.4%
Other Non-ferrous	5	0	5	0.0%	5	0	5	0.0%
White Goods	26	15	41	36.8%	26	15	41	36.8%
Subtotal	**512**	**168**	**680**	**24.6%**	**524**	**171**	**695**	**24.6%**
Yard Waste								
Leaves and Grass	967	0	967	0.0%	988	0	988	0.0%
Branches and Brush	1,028	0	1,028	0.0%	1,051	0	1,051	0.0%
Subtotal	**1,995**	**0**	**1,995**	**0.0%**	**2,039**	**0**	**2,039**	**0.0%**
Organics								
Food	788	0	788	0.0%	805	0	805	0.0%
Rubber/Tires	106	0	106	0.0%	108	0	108	0.0%
Wood	673	13	685	1.9%	687	13	700	1.9%
Agri. Crop Residue	48	0	48	0.0%	49	0	49	0.0%
Manure	27	0	27	0.0%	27	0	27	0.0%
Textiles/Leather	330	0	330	0.0%	337	0	337	0.0%
Diapers	244	0	244	0.0%	250	0	250	0.0%
Other Organics	161	0	161	0.0%	165	0	165	0.0%
Subtotal	**2,376**	**13**	**2,389**	**0.5%**	**2,428**	**13**	**2,442**	**0.5%**
Other Wastes								
Inert Solids	751	0	751	0.0%	768	0	768	0.0%
Hazardous Waste	38	0	38	0.0%	39	0	39	0.0%
Appliances	39	0	39	0.0%	40	0	40	0.0%
Subtotal	**829**	**0**	**829**	**0.0%**	**848**	**0**	**848**	**0.0%**
Ash	49	0	49	0.0%	50	0	50	0.0%
Sewage Sludge	0	0	0	0.0%	0	0	0	0.0%
Industrial Sludge	0	0	0	0.0%	0	0	0	0.0%
Asbestos	0	0	0	0.0%	0	0	0	0.0%
Auto Shredder Waste	0	0	0	0.0%	0	0	0	0.0%
Auto Bodies	1	0	1	0.0%	1	0	1	0.0%
Stuffed Furn. Mattresses	173	0	173	0.0%	177	0	177	0.0%
Subtotal	**223**	**0**	**223**	**0.0%**	**228**	**0**	**228**	**0.0%**
Total Waste	**9,504**	**488**	**9,991**	**4.9%**	**9,713**	**499**	**10,211**	**4.9%**

15 YEAR WASTE GENERATION PROJECTIONS - City of Lindsay

With Program Implementation

WASTE TYPE	1995				1996			
	Disposal	Diversion	Generation	Diversion Percent	Disposal	Diversion	Generation	Diversion Percent
Paper								
OCC/Kraft	818	275	1,094	25.2%	836	281	1,118	25.2%
Magazines	91	0	91	0.0%	93	0	93	0.0%
Mixed Paper	754	2	756	0.3%	770	2	773	0.3%
Newspaper	379	51	430	11.9%	388	52	440	11.9%
High Grade	128	0	128	0.0%	131	0	131	0.0%
Other Paper	511	0	511	0.0%	522	0	522	0.0%
Subtotal	**2,682**	**329**	**3,010**	**10.9%**	**2,741**	**336**	**3,077**	**10.9%**
Plastic								
HDPE	79	0	79	0.0%	81	0	81	0.0%
PET	13	12	26	48.1%	14	13	26	48.1%
Film Plastics	279	0	279	0.0%	285	0	285	0.0%
Polystyrene	59	0	59	0.0%	60	0	60	0.0%
Other Plastic	239	1	240	0.5%	244	1	245	0.5%
Subtotal	**669**	**13**	**682**	**2.0%**	**684**	**14**	**697**	**2.0%**
Glass								
Refillable Beverage	6	0	6	0.0%	6	0	6	0.0%
CA Redemption Value	66	62	128	48.3%	68	63	131	48.3%
Other Recyclable	162	10	172	5.8%	165	10	175	5.8%
Other Non-recyclable	49	0	49	0.0%	50	0	50	0.0%
Subtotal	**283**	**72**	**355**	**20.3%**	**289**	**74**	**362**	**20.3%**
Metals								
Aluminum Cans	11	107	118	90.6%	11	109	121	90.6%
Other Aluminum	22	13	36	37.5%	23	14	36	37.5%
Bi-metal Cans	12	0	12	0.0%	13	0	13	0.0%
Steel Food & Bev. Cans	138	0	138	0.0%	141	0	141	0.0%
Other Ferrous	310	48	358	13.4%	317	49	366	13.4%
Other Non-ferrous	6	0	6	0.0%	6	0	6	0.0%
White Goods	27	16	42	36.8%	27	16	43	36.8%
Subtotal	**526**	**184**	**710**	**25.9%**	**538**	**188**	**726**	**25.9%**
Yard Waste								
Leaves and Grass	614	396	1,010	39.2%	628	405	1,032	39.2%
Branches and Brush	677	397	1,074	37.0%	692	406	1,097	37.0%
Subtotal	**1,291**	**793**	**2,084**	**38.1%**	**1,319**	**810**	**2,130**	**38.1%**
Organics								
Food	823	0	823	0.0%	841	0	841	0.0%
Rubber/Tires	110	0	110	0.0%	113	0	113	0.0%
Wood	702	13	716	1.9%	718	14	732	1.9%
Agri. Crop Residue	50	0	50	0.0%	51	0	51	0.0%
Manure	28	0	28	0.0%	28	0	28	0.0%
Textiles/Leather	345	0	345	0.0%	352	0	352	0.0%
Diapers	255	0	255	0.0%	261	0	261	0.0%
Other Organics	168	0	168	0.0%	172	0	172	0.0%
Subtotal	**2,482**	**13**	**2,495**	**0.5%**	**2,536**	**14**	**2,550**	**0.5%**
Other Wastes								
Inert Solids	785	0	785	0.0%	802	0	802	0.0%
Hazardous Waste	40	0	40	0.0%	41	0	41	0.0%
Appliances	41	0	41	0.0%	42	0	42	0.0%
Subtotal	**866**	**0**	**866**	**0.0%**	**885**	**0**	**885**	**0.0%**
Ash	51	0	51	0.0%	52	0	52	0.0%
Sewage Sludge	0	0	0	0.0%	0	0	0	0.0%
Industrial Sludge	0	0	0	0.0%	0	0	0	0.0%
Asbestos	0	0	0	0.0%	0	0	0	0.0%
Auto Shredder Waste	0	0	0	0.0%	0	0	0	0.0%
Auto Bodies	1	0	1	0.0%	1	0	1	0.0%
Stuffed Furn./Mattresses	181	0	181	0.0%	185	0	185	0.0%
Subtotal	**233**	**0**	**233**	**0.0%**	**238**	**0**	**238**	**0.0%**
Total Waste	**9,031**	**1,405**	**10,436**	**13.5%**	**9,230**	**1,435**	**10,666**	**13.5%**

15 YEAR WASTE GENERATION PROJECTIONS - City of Lindsay

With Program Implementation

WASTE TYPE	1997				1998			
	Disposal	Diversion	Generation	Diversion Percent	Disposal	Diversion	Generation	Diversion Percent
Paper								
OCC/Kraft	855	288	1,142	25.2%	874	294	1,168	25.2%
Magazines	95	0	95	0.0%	98	0	98	0.0%
Mixed Paper	787	2	790	0.3%	805	2	807	0.3%
Newspaper	396	53	450	11.9%	405	54	459	11.9%
High Grade	134	0	134	0.0%	137	0	137	0.0%
Other Paper	533	0	533	0.0%	545	0	545	0.0%
Subtotal	**2,801**	**343**	**3,144**	**10.9%**	**2,863**	**351**	**3,213**	**10.9%**
Plastic								
HDPE	83	0	83	0.0%	85	0	85	0.0%
PET	14	13	27	48.1%	14	13	27	48.1%
Film Plastics	291	0	291	0.0%	298	0	298	0.0%
Polystyrene	62	0	62	0.0%	63	0	63	0.0%
Other Plastic	249	1	250	0.5%	255	1	256	0.5%
Subtotal	**699**	**14**	**713**	**2.0%**	**714**	**14**	**728**	**2.0%**
Glass								
Refillable Beverage	6	0	6	0.0%	6	0	6	0.0%
CA Redemption Value	69	65	134	48.3%	71	66	137	48.3%
Other Recyclable	169	10	179	5.8%	173	11	183	5.8%
Other Non-recyclable	51	0	51	0.0%	52	0	52	0.0%
Subtotal	**295**	**75**	**370**	**20.3%**	**302**	**77**	**378**	**20.3%**
Metals								
Aluminum Cans	12	112	123	90.6%	12	114	126	90.6%
Other Aluminum	23	14	37	37.5%	24	14	38	37.5%
Bi-metal Cans	13	0	13	0.0%	13	0	13	0.0%
Steel Food & Bev. Cans	144	0	144	0.0%	148	0	148	0.0%
Other Ferrous	324	50	374	13.4%	331	51	382	13.4%
Other Non-ferrous	6	0	6	0.0%	6	0	6	0.0%
White Goods	28	16	44	36.8%	29	17	45	36.8%
Subtotal	**550**	**192**	**742**	**25.9%**	**562**	**196**	**758**	**25.9%**
Yard Waste								
Leaves and Grass	641	414	1,055	39.2%	656	423	1,078	39.2%
Branches and Brush	707	415	1,121	37.0%	722	424	1,146	37.0%
Subtotal	**1,348**	**828**	**2,177**	**38.1%**	**1,378**	**846**	**2,224**	**38.1%**
Organics								
Food	859	0	859	0.0%	878	0	878	0.0%
Rubber/Tires	115	0	115	0.0%	118	0	118	0.0%
Wood	734	14	748	1.9%	750	14	764	1.9%
Agri. Crop Residue	52	0	52	0.0%	54	0	54	0.0%
Manure	29	0	29	0.0%	30	0	30	0.0%
Textiles/Leather	360	0	360	0.0%	368	0	368	0.0%
Diapers	267	0	267	0.0%	273	0	273	0.0%
Other Organics	176	0	176	0.0%	180	0	180	0.0%
Subtotal	**2,592**	**14**	**2,606**	**0.5%**	**2,649**	**14**	**2,664**	**0.5%**
Other Wastes								
Inert Solids	820	0	820	0.0%	838	0	838	0.0%
Hazardous Waste	42	0	42	0.0%	43	0	43	0.0%
Appliances	43	0	43	0.0%	44	0	44	0.0%
Subtotal	**905**	**0**	**905**	**0.0%**	**925**	**0**	**925**	**0.0%**
Ash	54	0	54	0.0%	55	0	55	0.0%
Sewage Sludge	0	0	0	0.0%	0	0	0	0.0%
Industrial Sludge	0	0	0	0.0%	0	0	0	0.0%
Asbestos	0	0	0	0.0%	0	0	0	0.0%
Auto Shredder Waste	0	0	0	0.0%	0	0	0	0.0%
Auto Bodies	1	0	1	0.0%	1	0	1	0.0%
Stuffed Furn./Mattresses	189	0	189	0.0%	193	0	193	0.0%
Subtotal	**243**	**0**	**243**	**0.0%**	**249**	**0**	**249**	**0.0%**
Total Waste	**9,433**	**1,467**	**10,900**	**13.5%**	**9,641**	**1,499**	**11,140**	**13.5%**

15 YEAR WASTE GENERATION PROJECTIONS - City of Lindsay

With Program Implementation

WASTE TYPE	1999				2000			
	Disposal	Diversion	Generation	Diversion Percent	Disposal	Diversion	Generation	Diversion Percent
per								
OCC/Kraft	893	300	1,193	25.2%	136	1,083	1,219	88.8%
Magazines	100	0	100	0.0%	72	30	102	29.4%
Mixed Paper	822	2	825	0.3%	593	249	842	29.6%
Newspaper	414	56	470	11.9%	175	305	480	63.5%
High Grade	140	0	140	0.0%	52	91	143	63.6%
Other Paper	557	0	557	0.0%	402	167	569	29.3%
Subtotal	**2,926**	**359**	**3,284**	**10.9%**	**1,430**	**1,925**	**3,355**	**57.4%**
stic								
HDPE	86	0	86	0.0%	32	56	88	63.6%
PET	15	13	28	48.1%	7	22	29	75.9%
Film Plastics	304	0	304	0.0%	219	91	310	29.4%
Polystyrene	64	0	64	0.0%	46	20	66	30.3%
Other Plastic	260	1	262	0.5%	188	80	268	29.9%
Subtotal	**730**	**15**	**744**	**2.0%**	**492**	**269**	**761**	**35.3%**
ıss								
Refillable Beverage	6	0	6	0.0%	7	0	7	0.0%
CA Redemption Value	72	68	140	48.3%	20	123	143	86.0%
Other Recyclable	176	11	187	5.8%	58	133	191	69.6%
Other Non-recyclable	54	0	54	0.0%	55	0	55	0.0%
Subtotal	**308**	**79**	**387**	**20.3%**	**140**	**256**	**396**	**64.6%**
tals								
Aluminum Cans	12	117	129	90.6%	13	119	132	90.2%
Other Aluminum	24	15	39	37.5%	4	35	39	89.7%
Bi-metal Cans	13	0	13	0.0%	10	4	14	28.6%
Steel Food & Bev. Cans	151	0	151	0.0%	109	45	154	29.2%
Other Ferrous	338	52	390	13.4%	92	308	400	77.0%
Other Non-ferrous	6	0	6	0.0%	5	2	7	28.6%
White Goods	29	17	46	36.8%	5	42	47	89.4%
Subtotal	**574**	**201**	**775**	**25.9%**	**238**	**555**	**793**	**70.0%**
rd Waste								
Leaves and Grass	670	432	1,102	39.2%	410	716	1,126	63.6%
Branches and Brush	738	433	1,171	37.0%	436	762	1,198	63.6%
Subtotal	**1,408**	**865**	**2,273**	**38.1%**	**846**	**1,478**	**2,324**	**63.6%**
ganics								
Food	898	0	898	0.0%	649	269	918	29.3%
Rubber/Tires	120	0	120	0.0%	123	0	123	0.0%
Wood	766	15	781	1.9%	276	523	799	65.5%
Agri. Crop Residue	55	0	55	0.0%	55	0	55	0.0%
Manure	30	0	30	0.0%	31	0	31	0.0%
Textiles/Leather	376	0	376	0.0%	384	0	384	0.0%
Diapers	279	0	279	0.0%	285	0	285	0.0%
Other Organics	184	0	184	0.0%	187	0	187	0.0%
Subtotal	**2,708**	**15**	**2,722**	**0.5%**	**1,990**	**792**	**2,782**	**28.5%**
ıer Wastes								
Inert Solids	856	0	856	0.0%	317	559	876	63.8%
Hazardous Waste	44	0	44	0.0%	44	0	44	0.0%
Appliances	45	0	45	0.0%	47	0	47	0.0%
Subtotal	**945**	**0**	**945**	**0.0%**	**408**	**559**	**967**	**57.8%**
Ash	56	0	56	0.0%	57	0	57	0.0%
Sewage Sludge	0	0	0	0.0%	0	0	0	0.0%
Industrial Sludge	0	0	0	0.0%	0	0	0	0.0%
Asbestos	0	0	0	0.0%	0	0	0	0.0%
Auto Shredder Waste	0	0	0	0.0%	0	0	0	0.0%
Auto Bodies	1	0	1	0.0%	1	0	1	0.0%
Stuffed Furn./Mattresses	197	0	197	0.0%	201	0	201	0.0%
Subtotal	**254**	**0**	**254**	**0.0%**	**259**	**0**	**259**	**0.0%**
Total Waste	**9,853**	**1,532**	**11,385**	**13.5%**	**5,803**	**5,834**	**11,637**	**50.1%**

15 YEAR WASTE GENERATION PROJECTIONS - City of Lindsay

With Program Implementation

WASTE TYPE	2001				2002			
	Disposal	Diversion	Generation	Diversion Percent	Disposal	Diversion	Generation	Diversion Percent
Paper								
OCC/Kraft	139	1,107	1,246	88.8%	142	1,131	1,273	88.8%
Magazines	74	31	104	29.4%	75	31	107	29.4%
Mixed Paper	606	254	861	29.6%	619	260	879	29.6%
Newspaper	179	312	491	63.5%	183	319	501	63.5%
High Grade	53	93	146	63.6%	54	95	149	63.6%
Other Paper	411	171	582	29.3%	420	174	594	29.3%
Subtotal	**1,461**	**1,967**	**3,429**	**57.4%**	**1,494**	**2,011**	**3,504**	**57.4%**
Plastic								
HDPE	33	57	90	63.6%	33	58	92	63.6%
PET	7	22	30	75.9%	7	23	30	75.9%
Film Plastics	224	93	317	29.4%	229	95	324	29.4%
Polystyrene	47	20	67	30.3%	48	21	69	30.3%
Other Plastic	192	82	274	29.9%	196	84	280	29.9%
Subtotal	**503**	**275**	**778**	**35.3%**	**514**	**281**	**795**	**35.3%**
Glass								
Refillable Beverage	7	0	7	0.0%	7	0	7	0.0%
CA Redemption Value	20	126	146	86.0%	21	128	149	86.0%
Other Recyclable	59	136	195	69.6%	61	139	199	69.6%
Other Non-recyclable	56	0	56	0.0%	57	0	57	0.0%
Subtotal	**143**	**262**	**405**	**64.6%**	**146**	**267**	**414**	**64.6%**
Metals								
Aluminum Cans	13	122	135	90.2%	14	124	138	90.2%
Other Aluminum	4	36	40	89.7%	4	37	41	89.7%
Bi-metal Cans	10	4	14	28.6%	10	4	15	28.6%
Steel Food & Bev. Cans	111	46	157	29.2%	114	47	161	29.2%
Other Ferrous	94	315	409	77.0%	96	322	418	77.0%
Other Non-ferrous	5	2	7	28.6%	5	2	7	28.6%
White Goods	5	43	48	89.4%	5	44	49	89.4%
Subtotal	**243**	**567**	**810**	**70.0%**	**249**	**580**	**828**	**70.0%**
Yard Waste								
Leaves and Grass	419	732	1,151	63.6%	428	748	1,176	63.6%
Branches and Brush	446	779	1,224	63.6%	455	796	1,251	63.6%
Subtotal	**865**	**1,511**	**2,375**	**63.6%**	**884**	**1,544**	**2,427**	**63.6%**
Organics								
Food	663	275	938	29.3%	678	281	959	29.3%
Rubber/Tires	126	0	126	0.0%	128	0	128	0.0%
Wood	282	535	817	65.5%	288	546	835	65.5%
Agri. Crop Residue	56	0	56	0.0%	57	0	57	0.0%
Manure	32	0	32	0.0%	32	0	32	0.0%
Textiles/Leather	392	0	392	0.0%	401	0	401	0.0%
Diapers	291	0	291	0.0%	298	0	298	0.0%
Other Organics	191	0	191	0.0%	195	0	195	0.0%
Subtotal	**2,034**	**809**	**2,843**	**28.5%**	**2,079**	**827**	**2,906**	**28.5%**
Other Wastes								
Inert Solids	324	571	895	63.8%	331	584	915	63.8%
Hazardous Waste	45	0	45	0.0%	46	0	46	0.0%
Appliances	48	0	48	0.0%	49	0	49	0.0%
Subtotal	**417**	**571**	**988**	**57.8%**	**426**	**584**	**1,010**	**57.8%**
Ash	58	0	58	0.0%	60	0	60	0.0%
Sewage Sludge	0	0	0	0.0%	0	0	0	0.0%
Industrial Sludge	0	0	0	0.0%	0	0	0	0.0%
Asbestos	0	0	0	0.0%	0	0	0	0.0%
Auto Shredder Waste	0	0	0	0.0%	0	0	0	0.0%
Auto Bodies	1	0	1	0.0%	1	0	1	0.0%
Stuffed Furn./Mattresses	205	0	205	0.0%	210	0	210	0.0%
Subtotal	**265**	**0**	**265**	**0.0%**	**271**	**0**	**271**	**0.0%**
Total Waste	**5,931**	**5,962**	**11,893**	**50.1%**	**6,061**	**6,094**	**12,155**	**50.1%**

15 YEAR WASTE GENERATION PROJECTIONS - City of Lindsay

With Program Implementation

WASTE TYPE	2003				2004			
	Disposal	Diversion	Generation	Diversion Percent	Disposal	Diversion	Generation	Diversion Percent
per								
OCC/Kraft	145	1,156	1,301	88.8%	148	1,181	1,330	88.8%
Magazines	77	32	109	29.4%	79	33	111	29.4%
Mixed Paper	633	266	899	29.6%	647	272	919	29.6%
Newspaper	187	326	512	63.5%	191	333	524	63.5%
High Grade	56	97	153	63.6%	57	99	156	63.6%
Other Paper	429	178	607	29.3%	439	182	621	29.3%
Subtotal	**1,526**	**2,055**	**3,581**	**57.4%**	**1,560**	**2,100**	**3,660**	**57.4%**
stic								
HDPE	34	60	94	63.6%	35	61	96	63.6%
PET	7	23	31	75.9%	8	24	32	75.9%
Film Plastics	234	97	331	29.4%	239	99	338	29.4%
Polystyrene	49	21	70	30.3%	50	22	72	30.3%
Other Plastic	201	85	286	29.9%	205	87	292	29.9%
Subtotal	**525**	**287**	**812**	**35.3%**	**537**	**293**	**830**	**35.3%**
ss								
Refillable Beverage	7	0	7	0.0%	8	0	8	0.0%
CA Redemption Value	21	131	153	86.0%	22	134	156	86.0%
Other Recyclable	62	142	204	69.6%	63	145	208	69.6%
Other Non-recyclable	59	0	59	0.0%	60	0	60	0.0%
Subtotal	**149**	**273**	**423**	**64.6%**	**153**	**279**	**432**	**64.6%**
tals								
Aluminum Cans	14	127	141	90.2%	14	130	144	90.2%
Other Aluminum	4	37	42	89.7%	4	38	43	89.7%
Bi-metal Cans	11	4	15	28.6%	11	4	15	28.6%
Steel Food & Bev. Cans	116	48	164	29.2%	119	49	168	29.2%
Other Ferrous	98	329	427	77.0%	100	336	436	77.0%
Other Non-ferrous	5	2	7	28.6%	5	2	8	28.6%
White Goods	5	45	50	89.4%	5	46	51	89.4%
Subtotal	**254**	**592**	**846**	**70.0%**	**260**	**605**	**865**	**70.0%**
d Waste								
Leaves and Grass	438	764	1,202	63.6%	447	781	1,228	63.6%
Branches and Brush	465	813	1,279	63.6%	476	831	1,307	63.6%
Subtotal	**903**	**1,578**	**2,481**	**63.6%**	**923**	**1,612**	**2,535**	**63.6%**
anics								
Food	693	287	980	29.3%	708	293	1,001	29.3%
Rubber/Tires	131	0	131	0.0%	134	0	134	0.0%
Wood	295	558	853	65.5%	301	571	872	65.5%
Agri. Crop Residue	59	0	59	0.0%	60	0	60	0.0%
Manure	33	0	33	0.0%	34	0	34	0.0%
Textiles/Leather	410	0	410	0.0%	419	0	419	0.0%
Diapers	304	0	304	0.0%	311	0	311	0.0%
Other Organics	200	0	200	0.0%	204	0	204	0.0%
Subtotal	**2,124**	**845**	**2,970**	**28.5%**	**2,171**	**864**	**3,035**	**28.5%**
er Wastes								
Inert Solids	338	597	935	63.8%	346	610	956	63.8%
Hazardous Waste	47	0	47	0.0%	48	0	48	0.0%
Appliances	50	0	50	0.0%	51	0	51	0.0%
Subtotal	**436**	**597**	**1,032**	**57.8%**	**445**	**610**	**1,055**	**57.8%**
Ash	61	0	61	0.0%	62	0	62	0.0%
Sewage Sludge	0	0	0	0.0%	0	0	0	0.0%
Industrial Sludge	0	0	0	0.0%	0	0	0	0.0%
Asbestos	0	0	0	0.0%	0	0	0	0.0%
Auto Shredder Waste	0	0	0	0.0%	0	0	0	0.0%
Auto Bodies	1	0	1	0.0%	1	0	1	0.0%
Stuffed Furn./Mattresses	215	0	215	0.0%	219	0	219	0.0%
Subtotal	**276**	**0**	**276**	**0.0%**	**283**	**0**	**283**	**0.0%**
Total Waste	**6,194**	**6,228**	**12,422**	**50.1%**	**6,331**	**6,365**	**12,695**	**50.1%**

15 YEAR WASTE GENERATION PROJECTIONS
City of Lindsay - With Program Implementation

WASTE TYPE	2005			
	Disposal	Diversion	Generation	Diversion Percent
Paper				
OCC/Kraft	152	1,207	1,359	88.8%
Magazines	80	33	114	29.4%
Mixed Paper	661	278	939	29.6%
Newspaper	195	340	535	63.5%
High Grade	58	101	159	63.6%
Other Paper	448	186	634	29.3%
Subtotal	**1,594**	**2,146**	**3,741**	**57.4%**
Plastic				
HDPE	36	62	98	63.6%
PET	8	25	32	75.9%
Film Plastics	244	101	346	29.4%
Polystyrene	51	22	74	30.3%
Other Plastic	210	89	299	29.9%
Subtotal	**549**	**300**	**848**	**35.3%**
Glass				
Refillable Beverage	8	0	8	0.0%
CA Redemption Value	22	137	159	86.0%
Other Recyclable	65	148	213	69.6%
Other Non-recyclable	61	0	61	0.0%
Subtotal	**156**	**285**	**442**	**64.6%**
Metals				
Aluminum Cans	14	133	147	90.2%
Other Aluminum	4	39	43	89.7%
Bi-metal Cans	11	4	16	28.6%
Steel Food & Bev. Cans	122	50	172	29.2%
Other Ferrous	103	343	446	77.0%
Other Non-ferrous	6	2	8	28.6%
White Goods	6	47	52	89.4%
Subtotal	**265**	**619**	**884**	**70.0%**
Yard Waste				
Leaves and Grass	457	798	1,255	63.6%
Branches and Brush	486	850	1,336	63.6%
Subtotal	**943**	**1,648**	**2,591**	**63.6%**
Organics				
Food	724	300	1,024	29.3%
Rubber/Tires	137	0	137	0.0%
Wood	308	583	891	65.5%
Agri. Crop Residue	61	0	61	0.0%
Manure	35	0	35	0.0%
Textiles/Leather	428	0	428	0.0%
Diapers	318	0	318	0.0%
Other Organics	208	0	208	0.0%
Subtotal	**2,219**	**883**	**3,102**	**28.5%**
Other Wastes				
Inert Solids	353	623	977	63.8%
Hazardous Waste	49	0	49	0.0%
Appliances	52	0	52	0.0%
Subtotal	**455**	**623**	**1,078**	**57.8%**
Ash	64	0	64	0.0%
Sewage Sludge	0	0	0	0.0%
Industrial Sludge	0	0	0	0.0%
Asbestos	0	0	0	0.0%
Auto Shredder Waste	0	0	0	0.0%
Auto Bodies	1	0	1	0.0%
Stuffed Furn./Mattresses	224	0	224	0.0%
Subtotal	**289**	**0**	**289**	**0.0%**
Total Waste	**6,470**	**6,505**	**12,975**	**50.1%**

CALIFORNIA INTEGRATED WASTE MANAGEMENT BOARD

Local Assistance and Planning Committee
February 9, 1994

AGENDA ITEM # 4

ITEM: Consideration of Petition for Reduction in the Diversion Requirements for the City of Exeter.

BACKGROUND:

Public Resources Code (PRC) Section 41780 requires that each city and county divert 25 percent of its waste from landfills by 1995 and 50 percent by the year 2000. Source Reduction and Recycling Elements (SRRE) are prepared by the cities and counties as a planning guide for meeting the diversion mandates (PRC Section 41000 and 41300). The SRREs describe the programs which the jurisdictions will use to achieve 25 percent and 50 percent diversion. PRC Section 41782 allows the California Integrated Waste Management Board (Board) to grant reductions in planning and diversion requirements. Section 18775 of Title 14 of the California Code of Regulations (14 CCR), identifies the qualifications that a jurisdiction must meet to petition the Board for a reduction in the requirements.

An incorporated city must have specific characteristics in order to petition for a reduction. The required characteristics are:

1. a geographic area of less than 3 square miles;
   or
   a population density of less than 1500 people per square mile; and

2. a waste generation rate of less than 100 cubic yards per day or 60 tons per day.

Requested Reductions

The City of Exeter is requesting a reduction of the 1995 diversion requirements to 13.5 percent.

ANALYSIS:

City Characteristics

The City of Exeter is located in Tulare County, in the southeast portion of the San Joaquin Valley. This area is predominantly flat, but is bounded on the east by the foothills of the Sierra Nevada mountains. The City is adjacent to the rural, unincorporated area of Tulare County and the City of Farmersville. The City is primarily a bedroom community with the major employers being the Hospital, School System, Mayflower Packing, S.L. Douglass and Workman Enterprises. Most job

opportunities are available outside the City, in the larger communities of Visalia, Tulare and Porterville. The City of Exeter has a median household income of $20,880 and a population of 7,925.

The City of Exeter meets the criteria to petition the Board for reduced diversion and/or planning requirements. The City of Exeter has an area of 2.09 square miles, and a waste generation rate of 22.7 tons per day.

Solid Waste Collection and Disposal

There are no permitted solid waste disposal facilities in the City. Most of the solid waste generated in the City is disposed of at the Woodville Disposal Site, 14 miles southwest of the City.

Allied Disposal has an exclusive franchise contract with the City of Exeter, through November 1997, for the collection of solid waste generated in the City. Subscription to Allied Disposal's service is mandatory and all residential and commercial customers are billed for the service by the City. The City of Exeter's Public Works Department also provides special leaf pick-ups in the fall and winter of each year.

Current Diversion Programs

Currently 579 tons per year, or 7.0 percent of the City's waste, is diverted from disposal through source reduction and recycling. Most of the current diversion is the result of the citizens of Exeter using other jurisdictions' programs. The only municipally sponsored diversion program involves the seasonal collection of leaves, which are collected from the city streets and composted in a windrow composting system.

The following table summarizes the diversion activities and quantities diverted in 1990.

Diversion by Material Type
Tons per Year

Material	Total	Diversion	Residential	Non Residential
OCC/Kraft	229	2.77%	0	229
PET	4	0.05%	4	0
CRV Glass	26	0.32%	26	0
Other Glass	9	0.11%	9	0
Aluminum Cans	88	1.06%	88	0
Other Aluminum	10	0.12%	0	10
Steel Cans	83	1.00%	83	0
Other Ferrous	64	0.77%	0	64
White Goods	21	0.25%	0	21
Yard Waste	42	0.51%	42	0
Diapers	3	0.04%	3	0
Totals	**579**	**7.00%**	**255**	**324**

Existing Diversion Programs

- California Certified Redemption Centers.
- City seasonal collection of leaves from the city streets.
- Commercial/Industrial programs that collect cardboard.
- Landfill salvage program (recovered from self-haul loads).
- Reduced tipping fee for clean loads of yard waste.
- Cloth diaper usage.

The initial Solid Waste Generation Study identified 1,881 tons of waste material as diverted by these and other programs in 1990; this represents 19.6 percent of the waste generated in the City. This includes 1,302 tons per year of inert solids, which have been excluded from the base year waste diversion levels as specified in PRC 41781.2. The exclusion of this 1,302 tons reduces the base year diversion rate for the City from 19.6 percent to 7.0 percent.

Proposed Diversion

The City plans on maintaining existing diversion programs. In addition, the City plans on implementing new programs to increase diversion levels to 13.5 percent. The following programs will be targeted by the City:

- Pursue the development of a yard waste collection and processing program. The yard waste collection program was identified in and selected from the original preliminary draft SRRE. The City of Exeter found this program to be the

most effective in diverting large amounts of waste while keeping the fiscal realities facing the City in mind.

- Promote public education programs associated with the yard waste program.
- Utilize the materials from the media kits provided by the CIWMB, to the extent practical.
- As new markets for materials become available through the Recycling Market Development Zone, the City will investigate the feasibility of diverting materials to such facilities.
- The City is also continuing to monitor purchasing decisions to encourage the purchase of materials and products that are recycled, that have minimal packaging, are supplied in bulk, and are reusable, recyclable and divertable.
- Promote participation in the California Certified Redemption Center program.

Proposed Planning and Diversion Reductions

Reduction in the diversion requirements:
The City of Exeter requests that the diversion level required for the short-term planning period (1991-1995) be reduced from 25 percent to 13.5 percent.

The City is requesting these reductions for the following reasons:

a) The cost of implementing additional diversion programs will be a significant hardship for the City due to the lack of funding associated with the small size and waste generation of the City (see table summarizing the current Solid Waste budget for the City).

b) The City does not have the staff to pursue extensive diversion programs. The Public Works Director is the staff assigned for the City's solid waste activities.

c) The City of Exeter is primarily a bedroom community for Visalia and Porterville, and has a lack of commercial and industrial enterprises that could provide waste streams that are easily and economically targeted for diversion programs.

Funding

The Solid Waste Budget for the City of Exeter is funded through monthly billings for service on residential and commercial solid

waste collection accounts, as well as a 27 percent franchise fee. This raises $526,000 annually, which is used completely each year without generating any reserve funds (see table below). However, a fund balance does exist and is used to cover contingency situations as well as the start up of the residential yard waste program. Historically, the Solid Waste budget expenditures exceed annual revenues by $3,000, leaving a deficit each year from the Solid Waste Budget. The refuse rates were increased by 5.6-6 percent in December 1993, to reflect the increase in landfill tipping fees and the cost of refuse collection.

The proposed yard waste diversion program is anticipated to cost $4.00 per household per month. The City estimates that diversion programs to meet the 25 percent diversion goal would add an additional $139,360 to annual operating costs.

City of Exeter - Solid Waste Budget
Fiscal Year 1993-94

Estimated Fund Balance (July 1, 1993)	**$125,000**
Revenue	**$526,000**
Refuse Collection	525,000
Investment Earnings	1,000
Expenses	**$529,000**
Salary and Benefits	36,555
Office Expense	3,600
Special Department Expense	4,500
Telephone	100
Utilities	500
Maintenance of Buildings, Structures and Grounds	500
Maintenance/Operation Vehicles	500
Contract Services: Allied Disposal	381,000
Insurance, Bonds & Retirement	2,745
Alley Repair	28,000
Franchise General Fund	27,000
Leaf Collection/Street Sweeping	44,000
Estimated Fund Balance (June 30, 1994)	**$122,000**

Staff Analysis

City Staff

Responsibility for administering the solid waste activities and waste management programs within the City of Exeter is placed upon the Public Works Director, with bookkeeping for billing and collection, administration and supervision of franchise contract services, and miscellaneous other services being provided by the appropriate city staff. Duties of the Public Works Director are summarized below.

City of Exeter-Public Works Director

- Responsible for street maintenance, parks, water services, and wastewater treatment.
- Plans and directs all solid waste activities.
- Responsible for the Integrated Waste Management Act of 1989 compliance activities.

The City of Exeter believes, based on their low population and volume of solid waste, limited funding and staff, and lack of local markets for recyclables that they will be able to reach an alternative diversion goal of 13.5 percent goal for the short term period.

Board staff believe that the request for a reduction of the short-term goal to 13.5 percent is a reasonable request considering the demographic and economic characteristics of the City of Exeter.

Conclusion

The City of Exeter qualifies, under the conditions of PRC Section 41782 and 14 CCR Section 18775, to petition for a reduction in the diversion requirements. 14 CCR Section 18775 requires the petitioning jurisdiction to provide the following information in its petition:

1. A general description of existing disposal and diversion systems, including documentation of the types and quantities of waste disposed and diverted;
2. Identification of the specific reductions being requested (i.e., planning and/or diversion requirements);

3. Documentation of why attainment of diversion and planning requirements is not feasible; and

4. The planning and diversion requirements that are achievable, and why.

Board staff have reviewed the petition from Exeter and found that it complies with these requirements. Based on the information provided in the petition, Board staff believe that the diversion reduction requested by Exeter is justified.

Board staff has worked with the consultant for the City of Exeter in the preparation of the petition. The current and proposed programs outlined in the City's preliminary draft SRRE and petition demonstrate the City's commitment to meeting the intent of the Integrated Waste Management Act of 1989. The City of Exeter has asked for the reduction based on limited staffing and a lack of funds for implementing diversion programs. The City has sufficiently demonstrated both of these conditions.

STAFF COMMENTS:

Board staff recommend that the Committee consider the City of Exeter's petition for reduction in the diversion requirements to 13.5 percent.

ATTACHMENTS

1. Copy of 14 CCR Section 18775
2. City of Exeter reduction petition
3. Board Resolution # 94-

Prepared by: Trevor M. Anderson Phone (916) 255-2309

Reviewed by: Toni Galloway Phone (916) 255-2653

Reviewed by: Judith J. Friedman Phone (916) 255-2555

Reviewed by: Dorothy Rice Phone (916) 255-2206

Legal Review: Date/Time 1/28/94 10:00am

CALIFORNIA INTEGRATED WASTE MANAGEMENT BOARD
RESOLUTION # 94-38

FOR THE REDUCTION OF DIVERSION
REQUIREMENTS FOR THE CITY OF EXETER

Title 14, Division 7, Chapter 9, Section 18775

WHEREAS, Public Resources Code Section 41782 allows reductions in the diversion and planning requirements specified in Public Resources Code Section 41780, if a city or county can demonstrate that achievement of the mandated requirements is not feasible due to geographical size or low population density, and small waste generation rates; and

WHEREAS, Title 14 of the California Code of Regulations, Section 18775 allows for qualifying jurisdictions to petition the Board for reductions in planning and diversion goals mandated by Public Resources Code Section 41780; and

WHEREAS, the Board has received a petition for reductions in the diversion requirements from the City of Exeter; and

WHEREAS, the City of Exeter qualifies based on geographic size, population density, and small waste generation rates to petition the Board for specified reductions; and

WHEREAS, the Board has found that the request for reduction in diversion requirements to allow the City of Exeter to achieve a 13.5 percent level of waste diversion by January 1, 1995 is reasonable; and

WHEREAS, the City has complied with Public Resources Code Section 41782, and Title 14 of the California Code of Regulations, Section 18775; and

WHEREAS, the Integrated Waste Management Local Assistance and Planning Committee approved the staff recommendation to allow the City of Exeter to reduce the short term diversion goals from 25 percent to 13.5 percent;

NOW, THEREFORE, BE IT RESOLVED that the Board hereby grants the reduction in diversion requirements for the City of Exeter to 13.5 percent for January 1, 1995.

BE IT FURTHER RESOLVED, that if the City SRRE has not been locally adopted and submitted to the Board by the deadline set in statute; or, if the City SRRE is not approved by the Board pursuant to the provisions of Chapter 7, Part 2, of Division 30 of the Public Resources Code (commencing with Section 41800), then the diversion reductions granted above shall be deemed revoked.

CERTIFICATION

The undersigned Executive Director of the California Integrated Waste Management Board does hereby certify that the foregoing is a full, true and correct copy of a resolution duly and regularly adopted by the California Integrated Waste Management Board on February 23, 1994.

Dated:

Ralph E. Chandler
Executive Director

Section 18775. Reduction in Diversion and Planning Requirements.

(a) A city or county may petition the Board, at a public hearing, to reduce the diversion requirements specified in Public Resources Code section 41780, and planning requirements. To petition for a reduction, the city or county shall present verification to the Board which indicates that achievement of the requirements is not feasible due to small geographic size or low population density of the city or county and the small quantity of waste it generates. To qualify to petition for a reduction in the diversion and planning requirements, a city or county must meet the following :

(1) For an incorporated city, a geographic area of less than 3 square miles or a population density of less than 1500 people per square mile and a waste generation rate of less than 100 cubic yards per day or 60 tons per day.

(2) For the unincorporated area of a county, a geographic area of less than 1500 square miles or a population density of less than 10 people per square mile and a waste generation rate of less than 100 cubic yards per day or 60 tons per day.

b) Based on information presented at the hearing, the Board may establish reduced diversion requirements, and alternative, but less comprehensive, planning requirements. A petitioner may identify those specific planning requirements from which it wants to be relieved and provide justification for the reduction. Examples of reduced planning requirements could include, but would not be limited to, reduced requirements for solid waste generation studies, and reduced requirements and consolidation of specific component requirements. These reduced planning requirements, if granted, must ensure compliance with Public Resources Code section 41782.

(c) Cities and counties requesting a reduction in the diversion and planning requirements must include the following information in the reduction petition:

(1) A general description of the existing disposal and diversion systems, including documentation of the types and quantities of waste disposed and diverted. Documentation sources may include, but are not limited to, the following:

(A) Solid Waste Generation or Characterization Studies;

(B) Diversion data from public and private recycling operations;

(C) Current year waste loading information from permitted solid waste facilities used by the jurisdiction;

(2) Identification of the specific reductions being requested (i.e. diversion or planning requirements or both);

(3) Documentation of why attainment of mandated diversion and planning requirements is not feasible. Examples of documentation could include, but are not limited to:

(A) Evidence from the documentation sources specified in paragraph (c)(1) of this section;

(B) Verification of existing solid waste budget revenues and expenses from the duly authorized designated representative of the city or county;

(4) The planning or diversion requirements that the city or county feels are achievable, and why.

(d) Cities and counties which petition the Board and receive a reduction in the diversion and planning requirements pursuant to this section, shall fully address the following issues in an annual report submitted to the Board within 90 days of the anniversary date the reduction was originally granted, and each year thereafter until the Board-mandated diversion levels are met:

(1) the city or county's current activities to establish and maintain source reduction and recycling programs;

(2) changes in demographics in the city or county;

(3) changes in types and amounts of waste generated in the city or county;

(4) changes in funding sources for implementing the Elements or Plan;

(5) changes in markets for the city or county's recyclables.

(e) The Board may, upon review of the annual report, find that a revision or revocation of the reduction is necessary. The Board shall present any such findings at a public hearing.

(f) If a regional agency is named in a regional agreement as the responsible entity for the achievement of the diversion requirements specified in PRC section 41780, neither the regional agency nor any member of the regional agency will be eligible for a reduction in the diversion requirements of PRC section 41780.

NOTE: Authority cited: Section 40502, Public Resources Code. Reference: Section 41782, 41783 through 41786 and 41802, 40973 Public Resources Code.

A Petition to the California Integrated Waste Management Board

For a Reduction in the Diversion and Planning Requirements Mandated by AB 939

Submitted By:

The City of Exeter, California

137 North F Street
Exeter, California 93221

October 1993
Revised January 1994

Prepared By:

Aurora Associates
6216 Tapia Drive Suite A
Malibu, California 90265
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1.0 SUMMARY

The City of Exeter is committed to cooperating with the State to achieve the intentions of AB 939. However, because of the fiscal impacts of other State-mandated programs, the small population base of the City, limited City staff and financial resources, and limited commercial and industrial businesses with corresponding significant waste volumes, the City of Exeter will not be able to feasibly achieve a 25% diversion rate by 1995. As an alternative, the City proposes to implement targeted programs that it believes to be feasible and effective in producing a 13.5% diversion rate by 1995.

The City of Exeter hereby petitions the California Integrated Waste Management Board and requests that the Board consider the conditions facing the City and approve its petition for an alternative diversion program.

2.0 ELIGIBILITY TO PETITION THE BOARD

The City of Exeter meets the criteria established by the CIWMB regulations for filing this petition:

Geographic Area[1]	2.09 square miles
Waste Generation Rate (1990)[2]	22.7 tons/day (38 cubic yards)

Sources: 1 Howard Ricks, Director, City of Exeter Public Works Department.
2 Preliminary Draft Source Reduction and Recycling Element, City of Exeter, September 1991.

3.0 TYPE OF PETITION

3.1 Short-Term Planning Period

The City of Exeter requests that the diversion level for the short term planning period (1991 - 1995) be reduced from 25% to 13.5% because it cannot feasibly meet the diversion requirements in an efficient and cost effective manner.

3.2 Medium-Term Planning Period

The City also does not believe that is can feasibly meet the medium-term (1996-2000) diversion requirement of 50% in an efficient and cost effective manner and intends to petition the CIWMB prior to the year 2000 for a reduction in its medium-term diversion requirements.

4.0 EXISTING CONDITIONS

4.1 Geographic Setting and Physical Characteristics

The City of Exeter is located in Tulare County, in the southeast portion of the San Joaquin Valley. This area is predominantly flat, but is bounded on the east by the foothills of the Sierra Nevada mountain chain. The City of Exeter is 2.09 square miles in area and is surrounded by the rural, unincorporated area of Tulare County and the City of Farmersville to the west.

4.2 Population and Housing

The 1993 population of the City of Exeter is estimated at 7,925 persons (California Department of Finance Report 93 E-1, *Population Estimates for California Cities and Counties, Official State Estimates*, May 1993). The housing units in the City of Exeter include 1,961 single-family units, 503 multi-family units, 170 mobile homes, and 17 other residential units (State Census Data Center, *1990 Census of Population and Housing, Summary Tape File 1, Complete Tables*).

4.3 Economy

The City of Exeter is primarily a bedroom community; major job opportunities are available in the larger communities, Visalia, Tulare, and Porterville within Tulare County or in the larger cities, Fresno to the north and Bakersfield to the south. The major employers in Exeter with their respective employment figures include the following:

- School District 330
- S.L. Douglass 305
- Exeter Memorial District Hospital 200
- Mayflower Packing 142
- Workman Enterprises 100

The median household income in 1989 was $20,880 (U.S. Census of 1990).

4.4 Solid Waste Generation and Management

Solid Waste Generation

An Initial Solid Waste Generation Study was completed for the City pursuant to Article 6.1 of the Planning Guidelines issued by the CIWMB. The results of the study are summarized in Table 1.

Table 1

SOLID WASTE GENERATION[1]
(Tons/Year - 1990)

Source	Disposed	Diverted	Incinerated	Generated
Residential	3,927	255	0	4,182
Commercial	1,512	324[2]	173[2]	2,009
Industrial	0	0	0	0
Self-Haul	2,080	0	0	2,080
Total	7,519	579	173	8,271

[1] Solid Waste Generation data has been modified to exclude inert solids diverted through an asphalt recycling program and a private industrial facility pursuant to AB 2494.

[2] Represents all non-residential diversion or incineration including industrial and self-haul.

Source: Preliminary Draft Source Reduction and Recycling Element, City of Exeter, September 1991.

The Initial Solid Waste Generation Study prepared for the City was part of a joint-regional study conducted for all jurisdictions in Tulare County. The waste disposal characterization study was performed using a quantitative field methodology. Waste disposal quantities were obtained through County disposal records and quantity records from hauler records. Residential and commercial loads for the region were sampled and sorted to determine the composition of wastes disposed of. Industrial/roll-off loads and self-haul loads for the region were visually surveyed to determine the composition of wastes disposed of. Waste diversion quantities were determined using jurisdiction-specific data from various diversion programs and recycling facilities.

Disposal Sites

There are no permitted solid waste disposal facilities or sites in the City of Exeter. The Woodville Disposal Site, located approximately 14 miles southwest of the City in the unincorporated area of Tulare County, serves as the primary disposal site for waste generated within the City. The landfill is owned and operated by Tulare County.

Collection Services

Allied Disposal has an exclusive franchise contract through November 1997 with the City of Exeter for the collection of solid waste disposed of in the City. Subscription to Allied Disposal's service is mandatory and all residential and commercial customers are billed for the service by the City.

Collection services provided by Allied Disposal are automated and all residential and some commercial customers are provided with 100-gallon automatic containers. Other commercial customers use bins ranging from one to six cubic yards in size.

The City of Exeter's Public Works Department also provides special leaf pick-ups in the fall and winter of each year.

Current Diversion Activities

The Initial Solid Waste Generation Study identified waste diversion quantities by collecting jurisdiction-specific diversion data from various diversion programs and recycling facilities. Diversion programs identified include the following:

- Use of cloth diapers instead of disposable diapers.
- California Certified Redemption Centers buy-back programs which collect PET California redemption value (CRV) containers, glass CRV and other glass food and beverage containers, and aluminum cans.
- Commercial/industrial programs that collect cardboard for recycling.
- A Landfill salvage program at the Woodville Disposal Site which recovers other aluminum metals, other ferrous metals, and white goods from self-haul loads for recycling.
- A reduced tipping fee is charged at the Woodville Disposal Site for disposal of clean loads of yard and wood waste. These materials are processed and used as fuel for biomass or cogeneration plants.
- Inert solids are diverted through an asphalt salvage program prior to reaching a disposal site.
- Sand (inert solids) is diverted from an industrial facility for use in an aggregate cement.
- The City of Exeter recently began a program for the seasonal collection of leaves from City streets. The leaves are collected with a vacuum truck and are composted in a windrow composting system.

The Initial Solid Waste Generation Study identified 1,881 tons of waste materials that were diverted by these programs in 1990; this represents 19.6% of the waste generated in the City. Table 2 presents a summary of the diversion activity by material type. Another 160 tons of yard waste and 13 tons of tires were diverted to transformation facilities in 1990.

Table 2

DIVERSION BY MATERIAL TYPE
(Tons/Year - 1990)

Material	Residential	Non-Residential
OCC/Kraft	0	229
PET	4	0
CRV Glass	26	0
Other Glass	9	0
Aluminum Cans	88	0
Other Aluminum	0	10
Steel Cans	83	0
Other Ferrous	0	64
White Goods	0	21
Yard Waste	42	0
Diapers	3	0
Inert Solids	0	1,302
Total	255	1,626

Source: Preliminary Draft Source Reduction and Recycling Element, City of Exeter, September 1991.

Assembly bill 2494 (Sher), *Statutes of 1992*, changed the method by which compliance with the diversion requirements is determined from a generation based method to a disposal based method. Assembly bill 2494 also specifies that for the purposes of determining the base amount of solid waste from which the diversion requirements are calculated, "solid waste" does not include the diversion of agricultural wastes, inert solids, white goods, and scrap metals unless all three of the following criteria are met:

> "(1) The city, county or regional agency demonstrates that the material was diverted from a permitted disposal facility through an action by the city, county, or regional agency which specifically resulted in the diversion.
>
> (2) The city, county, or regional agency demonstrates that, prior to January 1, 1990, the solid waste which is claimed to have been diverted was disposed of at a permitted disposal facility in the quantity being claimed as diversion.
>
> (3) The city, county, or regional agency is implementing, and will continue to implement, source reduction, recycling, and composting programs, as described in its source reduction and recycling element".

Based on the provisions of AB 2494, the diversion quantities of other aluminum and other ferrous metals and whites goods recovered in the landfill salvage program are still included in the baseline waste generation data. However, the diversion quantity of inert solids diverted through the asphalt

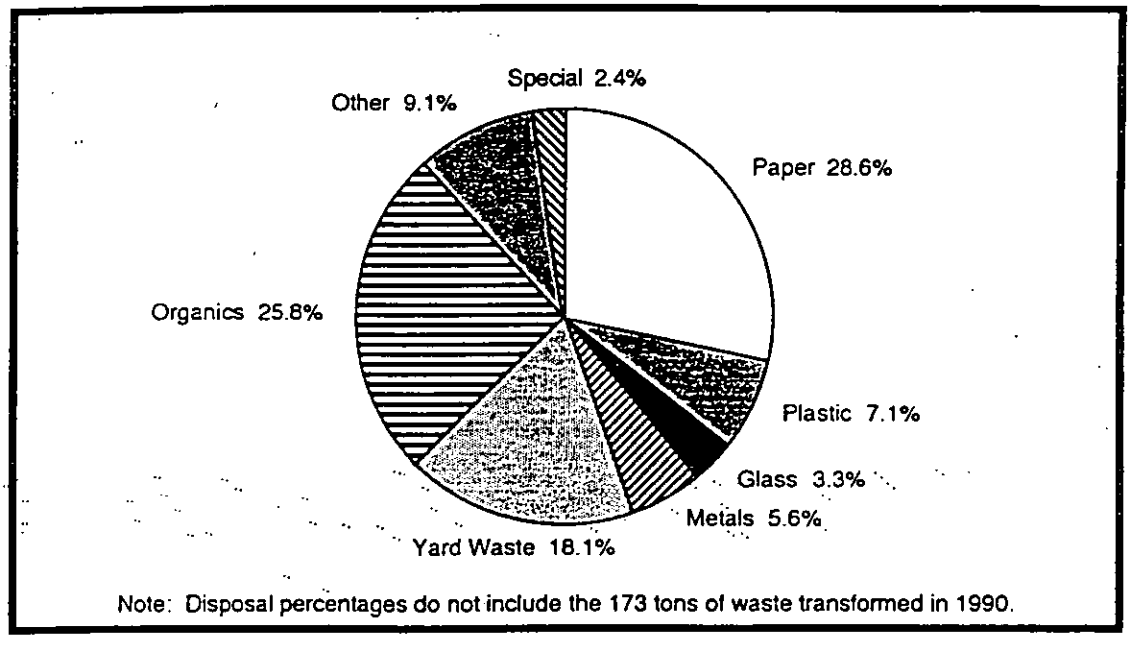
salvage program and a private industrial facility have been eliminated from the waste generation data because the three criteria listed above are not met. Based on the elimination of this diversion activity from the baseline waste generation data, the existing diversion tonnage is reduced from 1,881 tons to 579 tons; reducing the baseline diversion level to 7.0%.

Types of Waste Disposed and Diverted

A profile of the waste disposal and waste diversion streams, modified to exclude the inert solids as described above, is included as Appendix I to this petition. Summaries of the types of waste disposed of and diverted in the City of Exeter are provided in Figures 1 and 2.

Figure 1

WASTE DISPOSAL COMPOSITION SUMMARY

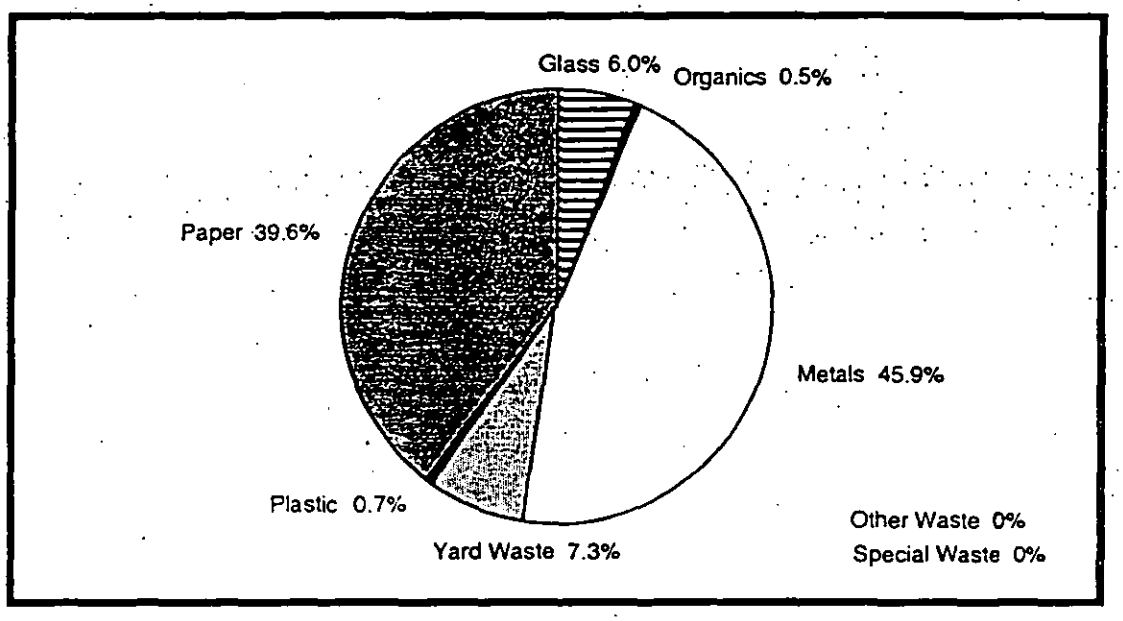


Note: Disposal percentages do not include the 173 tons of waste transformed in 1990.

Source: Preliminary Draft Source Reduction and Recycling Element, City of Exeter, September 1991.

Figure 2

WASTE DIVERSION COMPOSITION SUMMARY



Source: Preliminary Draft Source Reduction and Recycling Element, City of Exeter, September 1991.

5.0 REASONS WHY A 25% DIVERSION LEVEL CANNOT BE ACHIEVED

5.1 Programs Selected in the SRRE

A summary of the new diversion and education and public information programs initially selected in the City's Preliminary Draft SRRE for implementation in the short-term planning period is provided below. Table 3 summarizes the estimated program costs and material diversion rates to be realized if each of these new programs were implemented.

Source Reduction Programs

1. Public Education and Technical Assistance programs including:

    a. Provide technical assistance to businesses and consumers / homeowners through workshops and seminars on source reduction techniques and activities.

    b. Provide public education efforts through the media, the school system, and City offices programs to increase awareness of source reduction and waste management issues.

    c. Provide public recognition and awards to individuals and businesses that implement source reduction activities.

    d. Promote backyard composting and xeriscaping.

2. Rate Modification programs including:

   a. The City will consider the practicality of modifications to the current residential collection rate structure to a quantity-based user fee for both commercial and residential collection; the City will continue its quantity-based user fee for commercial waste collection.

   b. Disposal fee modification to encourage the delivery of segregated loads to the landfill of certain divertable materials. (Note: The County of Tulare will develop this program. Should the County choose not to implement this alternative, the City does not have the authority to modify disposal fees, and therefore this alternative would not be implemented.)

3. Regulatory programs to encourage source reduction on the part of local government, private businesses, and City residents including:

   a. A City offices procurement program and policy to encourage source reduction through purchasing decisions. Purchase preferences will be extended to materials and products that have minimal packaging, are supplied in bulk, and are reusable, recyclable, and durable.

Recycling Programs

4. Develop a residential curbside recycling program to collect and recycle aluminum and tin cans, PET, HDPE, newspaper, CA redemption and other recyclable glass.

5. Develop a multi-family recycling program to collect and recycle aluminum and tin cans, PET, HDPE, newspaper, CA redemption and other recyclable glass.

6. Develop a commercial / industrial recycling program to collect and recycle ferrous metals, newspaper, wood, and corrugated cardboard.

7. The County currently salvages materials at the Woodville Disposal Site. This program would expand the salvaging program and would recover corrugated cardboard, all metals, and inert solids from roll-off boxes and self-haul loads. This program will be developed and operated by the County, with assistance from the City.

Composting Programs

8. Establish a residential yard waste collection program.

9. Establish/expand a yard and wood waste drop-off program at the County landfills.

10. Develop a windrow composting system.

Special Waste Programs

11. Land application of sewage sludge for non-agricultural purposes.

Education and Public Information Programs

12. Outreach efforts including:
    - Coordination with Community Groups and Government Agencies
    - Coordination with Non-Profit Organizations
    - Participation in Local Events

13. Technical Assistance efforts including:
    - Junk Mail Reduction Program
    - Brochures
    - How-to Information
    - Technical Assistance
    - Recycling Videos

14. Public Awareness efforts including:
    - Environmental Shopping Campaign
    - Contests and Displays
    - Promotional Materials

15. Education efforts including:
    - Environmental Education Curriculum
    - Special Assemblies, Field Trips

Summary of Programs Selected and Cost

The estimated program costs and material diversion to be realized through implementation of the programs initially selected in the City's Preliminary Draft SRRE for the short-term planning period are presented in Table 3. The programs initially selected in the Preliminary Draft SRRE for implementation in the short-term planning period were designed to achieve an additional 17.1% waste diversion for a total diversion level of 36.7%. With the elimination of the diverted inert solids from the baseline generation data pursuant to AB 2494, the total diversion level with implementation of the programs identified in Table 3 would be reduced to 24.1%.

5.2 Barriers to Successful Program Implementation

The factors present in the City of Exeter which present significant barriers to successful implementation of programs that would allow the City to achieve the 25% diversion goal include limited availability of City staff and lack of funding associated with the small size of the City and corresponding waste generation. Additionally, the lack of commercial and industrial enterprises of significant size that would provide waste streams that are easily and economically targeted for implementation of diversion programs contribute to the City's inability to achieve the 25%

diversion goal. The conditions associated with limited staff availability and funding sources are further described below.

Limited Availability of City Staff

The City has limited staff available to coordinate and monitor the implementation and operation of new activities such as waste diversion and recycling programs. The City's Preliminary Draft SRRE included plans for hiring a Program Coordinator for recycling, composting, and public education programs to be shared with the Cities of Woodlake, Lindsay and Farmersville; however, this plan had to be abandoned due to lack of adequate financial resources. Thus, program implementation must now be coordinated by the remaining staff resources who have other responsibilities concerning the City's operations.

Solid waste activities and AB 939 compliance are the responsibility of the Public Works Director. This individual is also responsible for street maintenance, parks, water services, and wastewater treatment. The salary and benefits figure presented in the Solid Waste Budget (Table 4), includes bookkeeping for billing and collection, administration and supervision of franchise contract services, and miscellaneous other services.

Coordination and implementation of the education and public information program and source reduction, recycling, and composting programs proposed to achieve a 25% diversion level will significantly impact the work-load of the existing staff.

Program Costs vs. Revenue Sources

Estimated initial and annual program costs for the programs initially selected in the Preliminary Draft SRRE that were designed to achieve the additional 17.1% diversion level for a total diversion level of 36.7% originally planned are summarized in Table 3. The projected diversion level is reduced to 24.1% when the diverted inert solids are eliminated from the baseline generation data pursuant to AB 2494. The total initial program costs incurred directly by the City are estimated to be $143,450, while the annual program costs are estimated to be $198,260 per year. Implementation of these programs will substantially impact the financial resources of the City. Given the limited solid waste budget presented in Table 4 below, it is clear that the City cannot feasibly meet the diversion requirements in an efficient and cost effective manner.

The potential revenue source initially identified in the City's Preliminary Draft SRRE to fund these programs was an increase in the solid waste collection rate structure. Solid waste collection in the

Table 3

PROPOSED SHORT-TERM DIVERSION PROGRAMS - SRRE
Estimated Program Cost and Material Diversion[1]

Program	Initial Year's Cost	Annual Cost	Material Diversion %
Source Reduction Programs			
1. Public Education/Technical Assistance	___[2]	___[2]	0%
2. Rate Structure Modifications	___[3]	___[3]	0%
3. Regulatory Programs	___[3]	___[3]	0%
Recycling Programs			
4. Residential Curbside Recycling	$36,000	$52,650	3.7%
5. Multi-family Curbside Recycling	$14,150	$18,000	0.9%
6. Commercial/Industrial Recycling	$12,000	$16,800	1.7%
7. County Landfill Salvage Programs	___[4]	___[4]	2.0%
Composting Programs			
8. Residential Yard Waste Collection	$40,000	$58,900	3.3%
9. Yard and Wood Waste Drop-off	___[5]	___[5]	5.5%
10. Windrow Composting System	$26,550	$38,160	___[8]
Special Waste Programs			
11. Land Application of Sewage Sludge	___[6]	___[6]	N/A
Education and Public Information Programs			
12. through 15.	$6,000	$5,000	N/A
Program Coordinator for Recycling/ Composting/Public Education Programs[7]	$8,750	$8,750	N/A
TOTAL	**$143,450**	**$198,260**	**17.1%[9]**

[1] Costs include the planning, implementation, and monitoring of programs.
[2] Costs are included in the education and public information program.
[3] Costs are included in existing programs.
[4] Costs are borne by the County.
[5] Assumes expansion of yard-waste drop-off programs operated at the County landfills and that the costs will be borne by the County.
[6] No additional costs are expected with continuation of this program.
[7] SRRE coordinator to be shared between four Cities (Woodlake, Exeter, Farmersville, and Lindsay); this plan has already been abandoned due to lack of funds.
[8] Diversion percentage included in above composting programs.
[9] With existing diversion of 7.0%, total future diversion would be 24.1%.
Source: Preliminary Draft Source Reduction and Recycling Element, City of Exeter, September 1991.

City is financed by monthly billings for service on residential and commercial solid waste collection accounts. The City bills for both the residential and commercial collection service that Allied Disposal provides, and collects a 27% franchise fee. The City's franchise fee is used to cover expenses associated with the waste management system including street sweeping, leaf collection, alley repairs (from waste collection truck damage), and billing and collection.

Included in the $28.00/ton tipping fee at the County owned and operated landfills is a $1.00 surcharge for countywide household hazardous waste programs and a $3.47 surcharge for County-sponsored diversion programs.

The current rate for residential solid waste collection is $11.50/month for one, 100-gallon container, once per week; however, the rate will be increased to $12.20/month beginning December 1993. The collection rates are adjusted every two years for cost of living increases or if landfill tipping fees increase significantly. Prior to commencing contract disposal services with Allied Disposal in December 1991, the City provided twice weekly residential collection service. With the advent of once per week collection, the residential collection rate was reduced. For commercial solid waste collection, the current rates range from $25.00/month for a 1-yard bin, $55.00/month for a 3-yard bin to $90.00/month for a 6-yard bin, for once per week pick-up. Commercial collection rates were increased approximately 12% in 1991 when the City commenced contract collection services. The commercial collection rates will be increased by 5.6% beginning December 1993.

Table 4 summarizes the City's solid waste budget for Fiscal Year 1993-94. For Fiscal Year 1993/94, the City's Budget allocated $529,000 for solid waste collection and related services, while the estimated revenue is $526,000. As noted in Table 4, the City's solid waste budget includes an estimated fund balance at the beginning of Fiscal Year 1993/94 of $125,000 and an estimated fund balance at the end of the fiscal year of $122,000. The fund balance is used to cover contingency situations; a portion will also be used to fund the start-up of the proposed residential yard waste collection and processing program. With implementation of this program in addition to existing diversion programs, the City could achieve a 13.5% diversion level. Funding for implementation of all of the programs required to meet the 25% diversion goal in an efficient and cost effective manner is not economically and feasible for the City. Additionally, the small population and economic base of the City places a strict limitation on the options for additional fees or taxes levied against local citizens and/or businesses.

Table 4

CITY OF EXETER - SOLID WASTE BUDGET
Fiscal Year 1993-94

Estimated Fund Balance (July 1, 1993)	**$125,000**
Expenses	
Salary and Benefits	36,555
Office Expense	3,600
Special Department Expense	4,500
Telephone	100
Utilities	500
Maintenance of Buildings, Structures and Grounds	500
Maintenance/Operation Vehicles	500
Contract Services: Allied Disposal	381,000
Insurance, Bonds & Retirement	2,745
Alley Repair	28,000
Franchise General Fund	27,000
Leaf Collection/Street Sweeping	44,000
Total Expenses	**$529,000**
Revenue	
Refuse Collection	525,000
Investment Earnings	1,000
Total Revenue	**$526,000**
Estimated Fund Balance (June 30, 1994)	**$122,000**

Source: City of Exeter 1993-1994 Fiscal Budget and Roy Chase, City Manager.

5.3 Cost Impact of Full Implementation of SRRE Programs

The median household income for the City of Exeter is substantially below that for California in general. The local economic base is small and the City, like most other jurisdictions in the State, is concerned about the continued viability of its local businesses and industries. To the extent possible the City attempts to minimize the burden that the cost of local programs and services places on its residents and businesses.

Residential refuse collection rates were increased 6% in December 1993 to reflect increases in landfill tipping fees and the cost of refuse collection. Commercial and industrial refuse collection rates were increased 5.6% at the same time. To achieve a 25% diversion rate through full implementation of the programs listed in the City's SRRE these rates would have to be increased an additional 37.5%.

Recent trends in the residential and commercial refuse collection rates and the increase that would be required to fund full implementation of the SRRE programs are shown in Figures 3 and 4.

Figure 3
Residential Refuse Collection Rates
$/home/month

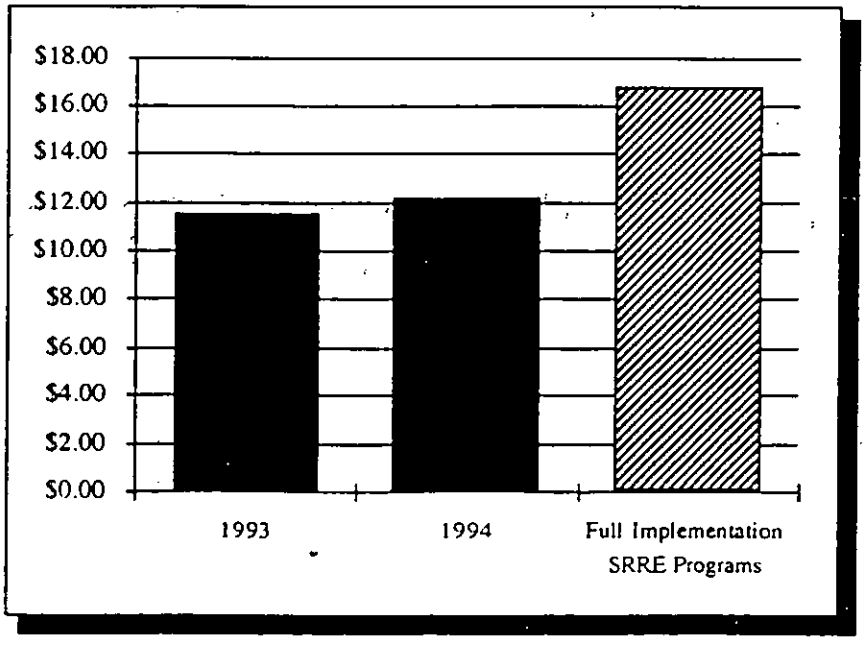
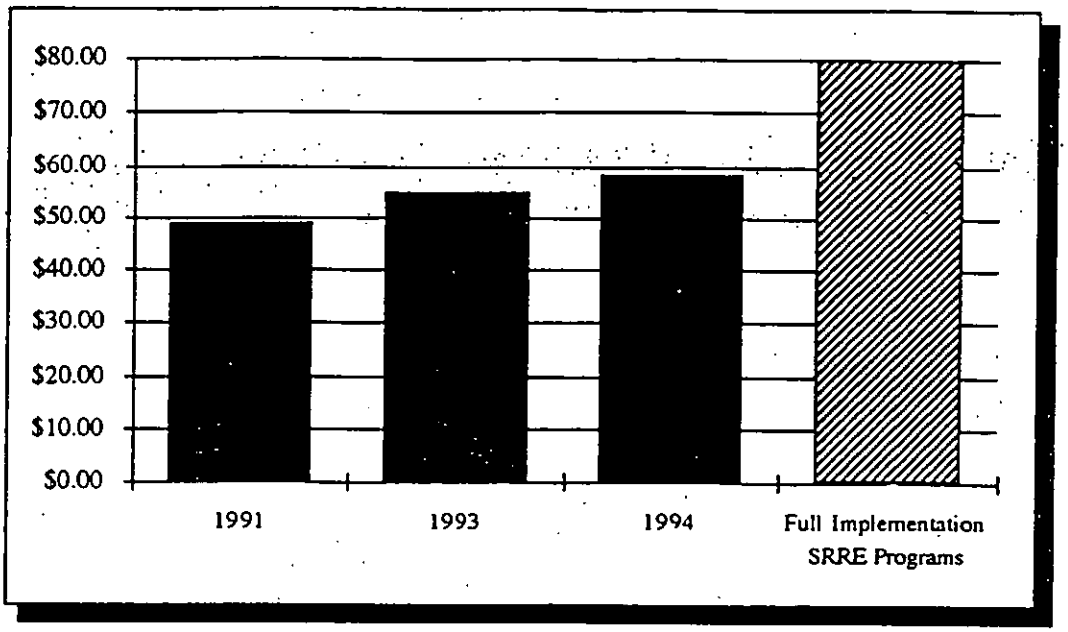


Figure 4

Commercial/Industrial Refuse Collection Rates

Monthly Cost for Weekly Pick-up of a 3-yard Bin



6.0 PROPOSED ALTERNATIVE WASTE DIVERSION PLAN

The City of Exeter is committed to pursuing a waste reduction program that is effective in increasing the diversion of materials from local landfills but is also responsive to the fiscal realities of the City. Table 5 presents an alternative waste diversion plan for the short-term planning period based on modifications of programs selected for implementation in the Preliminary Draft SRRE. The land application of sewage sludge would also be implemented under this alternative diversion plan.

The City is pursuing the development of a yard waste collection and processing program that will target yard waste from self haulers and the portion of the residential sector that utilizes commercial landscaping services. Collection bins and roll-offs would be located at strategic points in the city to receive the yard waste. The bins would be collected on a regular schedule and hauled to a central area where the yard waste would be chipped. This program is anticipated to cost approximately $4.00/household/month. Since the chipping or transfer site may be used by more than one jurisdiction, records will be kept of the amount of yard waste received from each jurisdiction.

In the short term, the chipped material would be used locally for mulch. At least one private operator has announced plans for a composting facility that will serve the Tulare County area. As this or other facilities become available, the City will evaluate the merits and costs of taking the yard waste to one of these facilities.

As new markets for materials become available through the local Recycling Market Development Zone, the City will investigate the feasibility of diverting materials to such facilities. The purchasing agent for the City will continue to monitor purchasing decisions to encourage the purchase of materials and products that are recycled, that have minimal packaging, are supplied in bulk, and are reusable, recyclable and divertable.

The City will promote participation in the yard waste program as well as continued use of the AB 2020 center through printed materials distributed with utility and tax bills. Special mailings and posters will be utilized as needed to announce the beginning or any major changes in the program. To the extent practical, the City will utilize materials from the media kit distributed by the CIWMB for mailings or for fliers, notices, or other materials distributed through the school system or mailed directly to residents and businesses.

Table 5

PROPOSED ALTERNATIVE WASTE DIVERSION PLAN

Diversion Program	Diversion Tons/Yr. 1995	Percent Diversion 1995
Existing Programs[1]	668	7.0%
Residential Yard Waste Collection Program and local processing program	620	6.5%
Total	1,288	13.5%

[1] Existing diversion (1990) without inert solids.

7.0 MEDIUM-TERM DIVERSION PROGRAMS

The City also does not believe that it can feasibly achieve a 50% diversion level by the year 2000, and therefore intends to petition the CIWMB prior to the year 2000 for a reduction in this diversion mandate as well. At that time, the City will provide a report on the status of its existing diversion programs. The tentative medium-term diversion programs identified in the Preliminary Draft SRRE are summarized in Table 6, and include programs that would be deferred from implementation in the short-term planning period as a result of this petition. To compensate for the elimination of inert solids from the baseline generation data, the diversion tonnages for newspapers, food, wood, and yard waste were increased over the tonnages presented in the Preliminary Draft SRRE. The programs presented in Table 6 are tentative until an alternative, reduced waste diversion plan would be reviewed by the CIWMB relative to the 50% diversion goal.

8.0 SOLID WASTE GENERATION PROJECTIONS

Revised fifteen-year projections of the waste disposal and diversion quantities by material type expected to be realized before and after the City implements the waste diversion programs described in Section 6.0 Proposed Alternative Waste Diversion Plan, above and presented in Section 7.0 Medium-Term Diversion Programs, are provided in Appendix II. These fifteen-year projections are based on the revised baseline waste generation data that excludes the inert solids that are diverted. A projected growth rate of 2.9% per year was assumed, based on the City's Preliminary Draft SRRE.

Table 6

TENTATIVE MEDIUM-TERM DIVERSION PROGRAMS
Estimated Material Diversion

Program	Material[1] Diversion %
Source Reduction Programs	0%
1. Public Education/Technical Assistance	
2. Rate Modification	
3. Regulatory Programs	
Recycling Programs	24.3%
4. Residential Curbside Recycling	
5. Multi-family Curbside Recycling	
6. Commercial/Industrial Recycling a. Material Recovery Operation	
7. County Landfill Salvage Programs[2]	
Composting Programs	18.7%
8. Residential Yard Waste Collection	
9. Yard and Wood Waste Drop-off a. Collect Alternative Feedstocks	
10. Windrow Composting System	
Special Waste Programs	
11. Land Application of Sewage Sludge[3]	N/A
Education and Public Information Programs	
12. through 15.	N/A
Program Coordinator for Recycling/ Composting/Public Education Programs	N/A
TOTAL	**43.0%**[4]

[1] Detail of diversion by program type for the medium-term planning period is not included in the City's Preliminary Draft SRRE.

[2] May be implemented in the short-term planning period.

[3] May be counted towards diversion goal in the future.

[4] With existing diversion of 7.0%, total future diversion would be 50%.

Source: Preliminary Draft Source Reduction and Recycling Element, City of Exeter, September 1991.

Appendix I

Solid Waste Generation Profiles

City of Exeter - Waste Disposal Profile (1991 Landfill Sampling Data)

	Residential	Commercial	Industrial	Self Haul	Total
OCC/Kraft	5.74%	14.97%	12.64%	6.08%	8.57%
Magazines	1.33%	0.93%	0.10%	0.61%	0.96%
Mixed Paper	9.23%	10.42%	5.98%	3.99%	7.89%
Newsprint	7.14%	3.99%	0.51%	1.91%	4.51%
High Grade	0.71%	3.11%	0.77%	0.80%	1.34%
Other Paper	6.58%	8.07%	2.98%	1.52%	5.34%
Subtotal Paper	**30.73%**	**41.49%**	**22.98%**	**14.91%**	**28.61%**
HDPE	1.05%	1.04%	1.28%	0.21%	0.83%
PET	0.40%	0.19%	0.02%	0.08%	0.24%
Film Plastics	3.40%	3.72%	5.02%	1.03%	2.92%
Polystyrene	0.45%	0.70%	0.34%	0.87%	0.62%
Other Plastic	2.73%	3.20%	3.05%	1.40%	2.50%
Subtotal Plastic	**8.03%**	**8.85%**	**9.71%**	**3.59%**	**7.10%**
Refillable Beverage	0.05%	0.00%	0.00%	0.15%	0.06%
CA Redemption Value	1.26%	1.13%	0.18%	0.80%	1.04%
Other Recyclable	2.51%	2.02%	0.31%	0.48%	1.69%
Other Non-Recyclable	0.61%	0.66%	0.04%	0.34%	0.51%
Subtotal Glass	**4.43%**	**3.81%**	**0.53%**	**1.77%**	**3.31%**
Aluminum Cans	0.30%	0.24%	0.02%	0.10%	0.21%
Other Aluminum	0.30%	0.38%	0.05%	0.04%	0.23%
Bi-metal Cans	0.00%	0.00%	0.10%	0.44%	0.13%
Steel Food & Bev. Cans	2.38%	1.47%	0.04%	0.34%	1.45%
Other Ferrous	2.48%	4.72%	2.76%	3.14%	3.25%
Other Non-ferrous	0.09%	0.06%	0.05%	0.02%	0.06%
White Goods	0.00%	0.00%	0.15%	0.96%	0.28%
Subtotal Metal	**5.55%**	**6.87%**	**3.17%**	**5.04%**	**5.60%**
Leaves and Grass	16.15%	4.21%	1.77%	9.26%	10.38%
Branches and Brush	5.27%	2.21%	10.67%	15.67%	7.70%
Subtotal Yard Waste	**21.42%**	**6.42%**	**12.44%**	**24.93%**	**18.08%**
Food	12.40%	9.51%	2.29%	3.53%	8.62%
Rubber/Tires	0.53%	1.77%	0.06%	1.10%	0.97%
Wood	1.68%	4.07%	22.33%	15.63%	7.36%
Agri. Crop Residue	0.00%	0.38%	1.42%	1.23%	0.52%
Manure	0.06%	0.00%	0.00%	0.97%	0.29%
Textiles/Leather	3.83%	3.72%	5.33%	2.80%	3.60%
Diapers	4.53%	2.70%	0.10%	0.44%	2.67%
Other Organics	2.10%	2.55%	0.36%	0.82%	1.76%
Subtotal Organics	**25.13%**	**24.70%**	**31.89%**	**26.52%**	**25.80%**
Inert Solids	3.04%	6.46%	18.65%	15.30%	8.21%
Hazardous Waste	0.47%	0.83%	0.01%	0.04%	0.41%
Appliances	0.51%	0.57%	0.03%	0.29%	0.44%
Subtotal Other Wastes	**4.02%**	**7.86%**	**18.69%**	**15.63%**	**9.07%**
Ash	0.00%	0.00%	0.02%	1.91%	0.53%
Sewage Sludge	0.00%	0.00%	0.00%	0.00%	0.00%
Industrial Sludge	0.00%	0.00%	0.00%	0.00%	0.00%
Asbestos	0.00%	0.00%	0.00%	0.00%	0.00%
Auto Shredder Waste	0.00%	0.00%	0.00%	0.00%	0.00%
Auto Bodies	0.00%	0.00%	0.20%	0.00%	0.01%
Stuffed Furn./Mattresses	0.69%	0.00%	0.37%	5.70%	1.89%
Subtotal Special Wastes	**0.69%**	**0.00%**	**0.59%**	**7.61%**	**2.43%**
Total	**100.00%**	**100.00%**	**100.00%**	**100.00%**	**100.00%**

City of Exeter Waste Generation (Tons/Year - 1990)

Component	Disposal					Trans-formation	Diversion	Generation Total
	Residential	Commercial	Industrial	Self Haul	Total			
OCC/Kraft	225	226	0	126	578	0	229	807
Magazines	52	14	0	13	79	0	0	79
Mixed Paper	362	158	0	83	603	0	0	603
Newsprint	280	60	0	40	380	0	0	380
High Grade	28	47	0	17	92	0	0	92
Other Paper	258	122	0	32	412	0	0	412
Paper	**1,207**	**627**	**0**	**310**	**2,144**	**0**	**229**	**2,373**
HDPE	41	16	0	4	61	0	0	61
PET	16	3	0	2	20	0	4	24
Film Plastics	134	56	0	21	211	0	0	211
Polystyrene	18	11	0	18	46	0	0	46
Other Plastic	107	48	0	29	185	0	0	185
Plastic	**315**	**134**	**0**	**75**	**524**	**0**	**4**	**528**
Refillable Bev.	2	0	0	3	5	0	0	5
CA Redem. Value	49	17	0	17	83	0	26	109
Other Recyclable	99	31	0	10	139	0	9	148
Other Non-Recyc.	24	10	0	7	41	0	0	41
Glass	**174**	**58**	**0**	**37**	**268**	**0**	**35**	**303**
Aluminum Cans	12	4	0	2	17	0	88	105
Other Aluminum	12	6	0	1	18	0	10	28
Bi-metal Cans	0	0	0	9	9	0	0	9
Steel Cans	93	22	0	7	123	0	83	206
Other Ferrous	97	71	0	65	234	0	64	298
Other Non-ferrous	4	1	0	0	5	0	0	5
White Goods	0	0	0	20	20	0	21	41
Metals	**218**	**104**	**0**	**105**	**427**	**0**	**266**	**693**
Leaves/Grass	634	64	0	193	890	13	20	923
Branches/Brush	207	33	0	326	566	147	22	735
Yard Waste	**841**	**97**	**0**	**519**	**1,457**	**160**	**42**	**1,659**
Food	487	144	0	73	704	0	0	704
Rubber/Tires	21	27	0	23	70	13	0	84
Wood	66	62	0	325	453	0	0	453
Agri.Crop Residue	0	6	0	26	31	0	0	31
Manure	2	0	0	20	23	0	0	23
Textiles/Leather	150	56	0	58	265	0	0	265
Diapers	178	41	0	9	228	0	3	231
Other Organics	82	39	0	17	138	0	0	138
Organics	**987**	**373**	**0**	**552**	**1,912**	**13**	**3**	**1,928**
Inert Solids	119	98	0	318	535	0	0	535
Hazardous Waste	18	13	0	1	32	0	0	32
Appliances	20	9	0	6	35	0	0	35
Other Waste	**158**	**119**	**0**	**325**	**602**	**0**	**0**	**602**
Ash	0	0	0	40	40	0	0	40
Sewage Sludge	0	0	0	0	0	0	0	0
Industrial Sludge	0	0	0	0	0	0	0	0
Asbestos	0	0	0	0	0	0	0	0
Auto Shred. Wst.	0	0	0	0	0	0	0	0
Auto Bodies	0	0	0	0	0	0	0	0
Stuffed Furn./Matt.	27	0	0	119	146	0	0	146
Special Waste	**27**	**0**	**0**	**158**	**185**	**0**	**0**	**185**
Total	**3,927**	**1,512**	**0**	**2,080**	**7,519**	**173**	**579**	**8,271**

Appendix II

15-Year Projections of Waste Disposal and Diversion

Existing Conditions and With Program Implementation

15 YEAR WASTE GENERATION PROJECTIONS - City of Exeter

Existing Conditions

WASTE TYPE	1991				1992			
	Disposal	Diversion	Generation	Diversion Percent	Disposal	Diversion	Generation	Diversion Percent
Paper								
OCC/Kraft	595	236	830	28.4%	612	242	854	28.4%
Magazines	81	0	81	0.0%	84	0	84	0.0%
Mixed Paper	620	0	620	0.0%	638	0	638	0.0%
Newspaper	391	0	391	0.0%	402	0	402	0.0%
High Grade	95	0	95	0.0%	97	0	97	0.0%
Other Paper	424	0	424	0.0%	436	0	436	0.0%
Subtotal	**2,206**	**236**	**2,442**	**9.7%**	**2,270**	**242**	**2,513**	**9.7%**
Plastic								
HDPE	63	0	63	0.0%	65	0	65	0.0%
PET	21	4	25	16.7%	21	4	25	16.7%
Film Plastics	217	0	217	0.0%	223	0	223	0.0%
Polystyrene	47	0	47	0.0%	49	0	49	0.0%
Other Plastic	190	0	190	0.0%	196	0	196	0.0%
Subtotal	**538**	**4**	**542**	**0.8%**	**554**	**4**	**558**	**0.8%**
Glass								
Refillable Beverage	5	0	5	0.0%	5	0	5	0.0%
CA Redemption Value	85	27	112	23.9%	88	28	115	23.9%
Other Recyclable	143	9	152	6.1%	147	10	157	6.1%
Other Non-recyclable	42	0	42	0.0%	43	0	43	0.0%
Subtotal	**276**	**36**	**312**	**11.6%**	**284**	**37**	**321**	**11.6%**
Metals								
Aluminum Cans	17	91	108	83.8%	18	93	111	83.8%
Other Aluminum	19	10	29	35.7%	19	11	30	35.7%
Bi-metal Cans	9	0	9	0.0%	10	0	10	0.0%
Steel Food & Bev. Cans	127	85	212	40.3%	130	88	218	40.3%
Other Ferrous	241	66	307	21.5%	248	68	316	21.5%
Other Non-ferrous	5	0	5	0.0%	5	0	5	0.0%
White Goods	21	22	42	51.2%	21	22	43	51.2%
Subtotal	**438**	**274**	**712**	**38.4%**	**451**	**282**	**733**	**38.4%**
Yard Waste								
Leaves and Grass	929	21	950	2.2%	956	21	977	2.2%
Branches and Brush	734	23	756	3.0%	755	23	778	3.0%
Subtotal	**1,663**	**43**	**1,706**	**2.5%**	**1,711**	**44**	**1,756**	**2.5%**
Organics								
Food	724	0	724	0.0%	745	0	745	0.0%
Rubber/Tires	85	0	85	0.0%	88	0	88	0.0%
Wood	466	0	466	0.0%	480	0	480	0.0%
Agri. Crop Residue	32	0	32	0.0%	33	0	33	0.0%
Manure	24	0	24	0.0%	24	0	24	0.0%
Textiles/Leather	273	0	273	0.0%	281	0	281	0.0%
Diapers	235	3	238	1.3%	241	3	245	1.3%
Other Organics	142	0	142	0.0%	146	0	146	0.0%
Subtotal	**1,981**	**3**	**1,984**	**0.2%**	**2,038**	**3**	**2,041**	**0.2%**
Other Wastes								
Inert Solids	551	0	551	0.0%	566	0	566	0.0%
Hazardous Waste	33	0	33	0.0%	34	0	34	0.0%
Appliances	36	0	36	0.0%	37	0	37	0.0%
Subtotal	**619**	**0**	**619**	**0.0%**	**637**	**0**	**637**	**0.0%**
Ash	41	0	41	0.0%	42	0	42	0.0%
Sewage Sludge	0	0	0	0.0%	0	0	0	0.0%
Industrial Sludge	0	0	0	0.0%	0	0	0	0.0%
Asbestos	0	0	0	0.0%	0	0	0	0.0%
Auto Shredder Waste	0	0	0	0.0%	0	0	0	0.0%
Auto Bodies	0	0	0	0.0%	0	0	0	0.0%
Stuffed Furn./Mattresses	150	0	150	0.0%	155	0	155	0.0%
Subtotal	**191**	**0**	**191**	**0.0%**	**197**	**0**	**197**	**0.0%**
Total Waste	**7,913**	**596**	**8,509**	**7.0%**	**8,142**	**613**	**8,756**	**7.0%**

15 YEAR WASTE GENERATION PROJECTIONS - City of Exeter

Existing Conditions

WASTE TYPE	1993				1994			
	Disposal	Diversion	Generation	Diversion Percent	Disposal	Diversion	Generation	Diversion Percent
Paper								
OCC/Kraft	630	250	879	28.4%	648	257	905	28.4%
Magazines	86	0	86	0.0%	89	0	89	0.0%
Mixed Paper	657	0	657	0.0%	676	0	676	0.0%
Newspaper	414	0	414	0.0%	426	0	426	0.0%
High Grade	100	0	100	0.0%	103	0	103	0.0%
Other Paper	449	0	449	0.0%	462	0	462	0.0%
Subtotal	**2,336**	**250**	**2,585**	**9.7%**	**2,404**	**257**	**2,660**	**9.7%**
Plastic								
HDPE	66	0	66	0.0%	68	0	68	0.0%
PET	22	4	26	16.7%	22	4	27	16.7%
Film Plastics	230	0	230	0.0%	237	0	237	0.0%
Polystyrene	50	0	50	0.0%	52	0	52	0.0%
Other Plastic	202	0	202	0.0%	207	0	207	0.0%
Subtotal	**570**	**4**	**574**	**0.8%**	**586**	**4**	**591**	**0.8%**
Glass								
Refillable Beverage	5	0	5	0.0%	6	0	6	0.0%
CA Redemption Value	90	28	119	23.9%	93	29	122	23.9%
Other Recyclable	151	10	161	6.1%	156	10	166	6.1%
Other Non-recyclable	45	0	45	0.0%	46	0	46	0.0%
Subtotal	**292**	**38**	**330**	**11.6%**	**300**	**39**	**340**	**11.6%**
Metals								
Aluminum Cans	19	96	114	83.8%	19	99	118	83.8%
Other Aluminum	20	11	31	35.7%	20	11	31	35.7%
Bi-metal Cans	10	0	10	0.0%	10	0	10	0.0%
Steel Food & Bev. Cans	134	90	224	40.3%	138	93	231	40.3%
Other Ferrous	255	70	325	21.5%	262	72	334	21.5%
Other Non-ferrous	5	0	5	0.0%	6	0	6	0.0%
White Goods	22	23	45	51.2%	22	24	46	51.2%
Subtotal	**464**	**290**	**754**	**38.4%**	**478**	**298**	**776**	**38.4%**
Yard Waste								
Leaves and Grass	984	22	1,006	2.2%	1,012	22	1,035	2.2%
Branches and Brush	777	24	801	3.0%	799	25	824	3.0%
Subtotal	**1,761**	**46**	**1,806**	**2.5%**	**1,812**	**47**	**1,859**	**2.5%**
Organics								
Food	767	0	767	0.0%	789	0	789	0.0%
Rubber/Tires	90	0	90	0.0%	93	0	93	0.0%
Wood	494	0	494	0.0%	508	0	508	0.0%
Agri. Crop Residue	34	0	34	0.0%	35	0	35	0.0%
Manure	25	0	25	0.0%	26	0	26	0.0%
Textiles/Leather	289	0	289	0.0%	297	0	297	0.0%
Diapers	248	3	252	1.3%	256	3	259	1.3%
Other Organics	150	0	150	0.0%	155	0	155	0.0%
Subtotal	**2,097**	**3**	**2,101**	**0.2%**	**2,158**	**3**	**2,162**	**0.2%**
Other Wastes								
Inert Solids	583	0	583	0.0%	600	0	600	0.0%
Hazardous Waste	35	0	35	0.0%	36	0	36	0.0%
Appliances	38	0	38	0.0%	39	0	39	0.0%
Subtotal	**656**	**0**	**656**	**0.0%**	**675**	**0**	**675**	**0.0%**
Ash	44	0	44	0.0%	45	0	45	0.0%
Sewage Sludge	0	0	0	0.0%	0	0	0	0.0%
Industrial Sludge	0	0	0	0.0%	0	0	0	0.0%
Asbestos	0	0	0	0.0%	0	0	0	0.0%
Auto Shredder Waste	0	0	0	0.0%	0	0	0	0.0%
Auto Bodies	0	0	0	0.0%	0	0	0	0.0%
Stuffed Furn./Mattresses	159	0	159	0.0%	164	0	164	0.0%
Subtotal	**203**	**0**	**203**	**0.0%**	**209**	**0**	**209**	**0.0%**
Total Waste	**8,379**	**631**	**9,009**	**7.0%**	**8,622**	**649**	**9,271**	**7.0%**

15 YEAR WASTE GENERATION PROJECTIONS - City of Exeter

Existing Conditions

WASTE TYPE	1995				1996			
	Disposal	Diversion	Generation	Diversion Percent	Disposal	Diversion	Generation	Diversion Percent
Paper								
OCC/Kraft	667	264	931	28.4%	686	272	958	28.4%
Magazines	91	0	91	0.0%	94	0	94	0.0%
Mixed Paper	696	0	696	0.0%	716	0	716	0.0%
Newspaper	438	0	438	0.0%	451	0	451	0.0%
High Grade	106	0	106	0.0%	109	0	109	0.0%
Other Paper	475	0	475	0.0%	489	0	489	0.0%
Subtotal	**2,473**	**264**	**2,738**	**9.7%**	**2,545**	**272**	**2,817**	**9.7%**
Plastic								
HDPE	70	0	70	0.0%	72	0	72	0.0%
PET	23	5	28	16.7%	24	5	28	16.7%
Film Plastics	243	0	243	0.0%	250	0	250	0.0%
Polystyrene	53	0	53	0.0%	55	0	55	0.0%
Other Plastic	213	0	213	0.0%	220	0	220	0.0%
Subtotal	**603**	**5**	**608**	**0.8%**	**621**	**5**	**626**	**0.8%**
Glass								
Refillable Beverage	6	0	6	0.0%	6	0	6	0.0%
CA Redemption Value	96	30	126	23.9%	99	31	129	23.9%
Other Recyclable	160	10	171	6.1%	165	11	176	6.1%
Other Non-recyclable	47	0	47	0.0%	49	0	49	0.0%
Subtotal	**309**	**40**	**350**	**11.6%**	**318**	**42**	**360**	**11.6%**
Metals								
Aluminum Cans	20	102	121	83.8%	20	104	125	83.8%
Other Aluminum	21	12	32	35.7%	21	12	33	35.7%
Bi-metal Cans	10	0	10	0.0%	11	0	11	0.0%
Steel Food & Bev. Cans	142	96	238	40.3%	146	99	245	40.3%
Other Ferrous	270	74	344	21.5%	278	76	354	21.5%
Other Non-ferrous	6	0	6	0.0%	6	0	6	0.0%
White Goods	23	24	47	51.2%	24	25	49	51.2%
Subtotal	**491**	**307**	**798**	**38.4%**	**506**	**316**	**821**	**38.4%**
Yard Waste								
Leaves and Grass	1,042	23	1,065	2.2%	1,072	24	1,096	2.2%
Branches and Brush	823	25	848	3.0%	846	26	873	3.0%
Subtotal	**1,864**	**48**	**1,913**	**2.5%**	**1,918**	**50**	**1,968**	**2.5%**
Organics								
Food	812	0	812	0.0%	836	0	836	0.0%
Rubber/Tires	96	0	96	0.0%	99	0	99	0.0%
Wood	523	0	523	0.0%	538	0	538	0.0%
Agri. Crop Residue	36	0	36	0.0%	37	0	37	0.0%
Manure	27	0	27	0.0%	27	0	27	0.0%
Textiles/Leather	306	0	306	0.0%	315	0	315	0.0%
Diapers	263	3	266	1.3%	271	4	274	1.3%
Other Organics	159	0	159	0.0%	164	0	164	0.0%
Subtotal	**2,221**	**3**	**2,224**	**0.2%**	**2,285**	**4**	**2,289**	**0.2%**
Other Wastes								
Inert Solids	617	0	617	0.0%	635	0	635	0.0%
Hazardous Waste	37	0	37	0.0%	38	0	38	0.0%
Appliances	40	0	40	0.0%	42	0	42	0.0%
Subtotal	**695**	**0**	**695**	**0.0%**	**715**	**0**	**715**	**0.0%**
Ash	46	0	46	0.0%	47	0	47	0.0%
Sewage Sludge	0	0	0	0.0%	0	0	0	0.0%
Industrial Sludge	0	0	0	0.0%	0	0	0	0.0%
Asbestos	0	0	0	0.0%	0	0	0	0.0%
Auto Shredder Waste	0	0	0	0.0%	0	0	0	0.0%
Auto Bodies	0	0	0	0.0%	0	0	0	0.0%
Stuffed Furn./Mattresses	168	0	168	0.0%	173	0	173	0.0%
Subtotal	**215**	**0**	**215**	**0.0%**	**221**	**0**	**221**	**0.0%**
Total Waste	**8,872**	**668**	**9,540**	**7.0%**	**9,129**	**687**	**9,816**	**7.0%**

15 YEAR WASTE GENERATION PROJECTIONS - City of Exeter

Existing Conditions

WASTE TYPE	1998 Disposal	1998 Diversion	1998 Generation	1998 Diversion Percent	1998 Disposal	1998 Diversion	1998 Generation	1998 Diversion Percent
Paper								
OCC/Kraft	706	280	986	28.4%	727	288	1,014	28.4%
Magazines	97	0	97	0.0%	99	0	99	0.0%
Mixed Paper	737	0	737	0.0%	758	0	758	0.0%
Newspaper	464	0	464	0.0%	478	0	478	0.0%
High Grade	112	0	112	0.0%	116	0	116	0.0%
Other Paper	503	0	503	0.0%	518	0	518	0.0%
Subtotal	**2,619**	**280**	**2,899**	**9.7%**	**2,695**	**288**	**2,983**	**9.7%**
Plastic								
HDPE	75	0	75	0.0%	77	0	77	0.0%
PET	24	5	29	16.7%	25	5	30	16.7%
Film Plastics	258	0	258	0.0%	265	0	265	0.0%
Polystyrene	56	0	56	0.0%	58	0	58	0.0%
Other Plastic	226	0	226	0.0%	233	0	233	0.0%
Subtotal	**639**	**5**	**644**	**0.8%**	**657**	**5**	**662**	**0.8%**
Glass								
Refillable Beverage	6	0	6	0.0%	6	0	6	0.0%
CA Redemption Value	101	32	133	23.9%	104	33	137	23.9%
Other Recyclable	170	11	181	6.1%	175	11	186	6.1%
Other Non-recyclable	50	0	50	0.0%	52	0	52	0.0%
Subtotal	**327**	**43**	**370**	**11.6%**	**337**	**44**	**381**	**11.6%**
Metals								
Aluminum Cans	21	107	128	83.8%	21	111	132	83.8%
Other Aluminum	22	12	34	35.7%	23	13	35	35.7%
Bi-metal Cans	11	0	11	0.0%	11	0	11	0.0%
Steel Food & Bev. Cans	150	101	252	40.3%	155	104	259	40.3%
Other Ferrous	286	78	364	21.5%	294	80	375	21.5%
Other Non-ferrous	6	0	6	0.0%	6	0	6	0.0%
White Goods	24	26	50	51.2%	25	26	52	51.2%
Subtotal	**520**	**325**	**845**	**38.4%**	**535**	**334**	**870**	**38.4%**
Yard Waste								
Leaves and Grass	1,103	24	1,127	2.2%	1,135	25	1,160	2.2%
Branches and Brush	871	27	898	3.0%	896	28	924	3.0%
Subtotal	**1,974**	**51**	**2,025**	**2.5%**	**2,031**	**53**	**2,084**	**2.5%**
Organics								
Food	860	0	860	0.0%	885	0	885	0.0%
Rubber/Tires	101	0	101	0.0%	104	0	104	0.0%
Wood	553	0	553	0.0%	569	0	569	0.0%
Agri. Crop Residue	38	0	38	0.0%	39	0	39	0.0%
Manure	28	0	28	0.0%	29	0	29	0.0%
Textiles/Leather	324	0	324	0.0%	333	0	333	0.0%
Diapers	279	4	282	1.3%	287	4	290	1.3%
Other Organics	169	0	169	0.0%	173	0	173	0.0%
Subtotal	**2,351**	**4**	**2,355**	**0.2%**	**2,420**	**4**	**2,423**	**0.2%**
Other Wastes								
Inert Solids	654	0	654	0.0%	672	0	672	0.0%
Hazardous Waste	39	0	39	0.0%	40	0	40	0.0%
Appliances	43	0	43	0.0%	44	0	44	0.0%
Subtotal	**735**	**0**	**735**	**0.0%**	**757**	**0**	**757**	**0.0%**
Ash	49	0	49	0.0%	50	0	50	0.0%
Sewage Sludge	0	0	0	0.0%	0	0	0	0.0%
Industrial Sludge	0	0	0	0.0%	0	0	0	0.0%
Asbestos	0	0	0	0.0%	0	0	0	0.0%
Auto Shredder Waste	0	0	0	0.0%	0	0	0	0.0%
Auto Bodies	0	0	0	0.0%	0	0	0	0.0%
Stuffed Furn./Mattresses	178	0	178	0.0%	184	0	184	0.0%
Subtotal	**227**	**0**	**227**	**0.0%**	**234**	**0**	**234**	**0.0%**
Total Waste	**9,394**	**707**	**10,101**	**7.0%**	**9,666**	**728**	**10,394**	**7.0%**

15 YEAR WASTE GENERATION PROJECTIONS - City of Exeter

Existing Conditions

WASTE TYPE	1999				2000			
	Disposal	Diversion	Generation	Diversion Percent	Disposal	Diversion	Generation	Diversion Percent
Paper								
OCC/Kraft	748	296	1,044	28.4%	769	305	1,074	28.4%
Magazines	102	0	102	0.0%	105	0	105	0.0%
Mixed Paper	780	0	780	0.0%	803	0	803	0.0%
Newspaper	491	0	491	0.0%	506	0	506	0.0%
High Grade	119	0	119	0.0%	122	0	122	0.0%
Other Paper	533	0	533	0.0%	548	0	548	0.0%
Subtotal	**2,773**	**296**	**3,069**	**9.7%**	**2,854**	**305**	**3,158**	**9.7%**
Plastic								
HDPE	79	0	79	0.0%	81	0	81	0.0%
PET	26	5	31	16.7%	27	5	32	16.7%
Film Plastics	273	0	273	0.0%	281	0	281	0.0%
Polystyrene	59	0	59	0.0%	61	0	61	0.0%
Other Plastic	239	0	239	0.0%	246	0	246	0.0%
Subtotal	**676**	**5**	**682**	**0.8%**	**696**	**5**	**701**	**0.8%**
Glass								
Refillable Beverage	6	0	6	0.0%	7	0	7	0.0%
CA Redemption Value	107	34	141	23.9%	110	35	145	23.9%
Other Recyclable	180	12	191	6.1%	185	12	197	6.1%
Other Non-recyclable	53	0	53	0.0%	55	0	55	0.0%
Subtotal	**347**	**45**	**392**	**11.6%**	**357**	**47**	**403**	**11.6%**
Metals								
Aluminum Cans	22	114	136	83.8%	23	117	140	83.8%
Other Aluminum	23	13	36	35.7%	24	13	37	35.7%
Bi-metal Cans	12	0	12	0.0%	12	0	12	0.0%
Steel Food & Bev. Cans	159	107	266	40.3%	164	110	274	40.3%
Other Ferrous	303	83	385	21.5%	311	85	397	21.5%
Other Non-ferrous	6	0	6	0.0%	7	0	7	0.0%
White Goods	26	27	53	51.2%	27	28	55	51.2%
Subtotal	**551**	**344**	**895**	**38.4%**	**567**	**354**	**921**	**38.4%**
Yard Waste								
Leaves and Grass	1,168	26	1,194	2.2%	1,202	27	1,228	2.2%
Branches and Brush	922	28	951	3.0%	949	29	978	3.0%
Subtotal	**2,090**	**54**	**2,144**	**2.5%**	**2,151**	**56**	**2,207**	**2.5%**
Organics								
Food	911	0	911	0.0%	937	0	937	0.0%
Rubber/Tires	107	0	107	0.0%	110	0	110	0.0%
Wood	586	0	586	0.0%	603	0	603	0.0%
Agri. Crop Residue	40	0	40	0.0%	41	0	41	0.0%
Manure	30	0	30	0.0%	31	0	31	0.0%
Textiles/Leather	343	0	343	0.0%	353	0	353	0.0%
Diapers	295	4	299	1.3%	303	4	307	1.3%
Other Organics	178	0	178	0.0%	184	0	184	0.0%
Subtotal	**2,490**	**4**	**2,494**	**0.2%**	**2,562**	**4**	**2,566**	**0.2%**
Other Wastes								
Inert Solids	692	0	692	0.0%	712	0	712	0.0%
Hazardous Waste	41	0	41	0.0%	43	0	43	0.0%
Appliances	45	0	45	0.0%	47	0	47	0.0%
Subtotal	**779**	**0**	**779**	**0.0%**	**801**	**0**	**801**	**0.0%**
Ash	52	0	52	0.0%	53	0	53	0.0%
Sewage Sludge	0	0	0	0.0%	0	0	0	0.0%
Industrial Sludge	0	0	0	0.0%	0	0	0	0.0%
Asbestos	0	0	0	0.0%	0	0	0	0.0%
Auto Shredder Waste	0	0	0	0.0%	0	0	0	0.0%
Auto Bodies	0	0	0	0.0%	0	0	0	0.0%
Stuffed Furn./Mattresses	189	0	189	0.0%	194	0	194	0.0%
Subtotal	**241**	**0**	**241**	**0.0%**	**248**	**0**	**248**	**0.0%**
Total Waste	**9,946**	**749**	**10,695**	**7.0%**	**10,235**	**771**	**11,005**	**7.0%**

15 YEAR WASTE GENERATION PROJECTIONS - City of Exeter

Existing Conditions

WASTE TYPE	2001				2002			
	Disposal	Diversion	Generation	Diversion Percent	Disposal	Diversion	Generation	Diversion Percent
Paper								
OCC/Kraft	792	314	1,105	28.4%	815	323	1,137	28.4%
Magazines	108	0	108	0.0%	111	0	111	0.0%
Mixed Paper	826	0	826	0.0%	850	0	850	0.0%
Newspaper	520	0	520	0.0%	536	0	536	0.0%
High Grade	126	0	126	0.0%	130	0	130	0.0%
Other Paper	564	0	564	0.0%	581	0	581	0.0%
Subtotal	**2,936**	**314**	**3,250**	**9.7%**	**3,021**	**323**	**3,344**	**9.7%**
Plastic								
HDPE	84	0	84	0.0%	86	0	86	0.0%
PET	27	5	33	16.7%	28	6	34	16.7%
Film Plastics	289	0	289	0.0%	297	0	297	0.0%
Polystyrene	63	0	63	0.0%	65	0	65	0.0%
Other Plastic	253	0	253	0.0%	261	0	261	0.0%
Subtotal	**716**	**5**	**722**	**0.8%**	**737**	**6**	**743**	**0.8%**
Glass								
Refillable Beverage	7	0	7	0.0%	7	0	7	0.0%
CA Redemption Value	114	36	149	23.9%	117	37	154	23.9%
Other Recyclable	190	12	203	6.1%	196	13	209	6.1%
Other Non-recyclable	56	0	56	0.0%	58	0	58	0.0%
Subtotal	**367**	**48**	**415**	**11.6%**	**378**	**49**	**427**	**11.6%**
Metals								
Aluminum Cans	23	121	144	83.8%	24	124	148	83.8%
Other Aluminum	25	14	38	35.7%	25	14	39	35.7%
Bi-metal Cans	12	0	12	0.0%	13	0	13	0.0%
Steel Food & Bev. Cans	168	114	282	40.3%	173	117	290	40.3%
Other Ferrous	320	88	408	21.5%	330	90	420	21.5%
Other Non-ferrous	7	0	7	0.0%	7	0	7	0.0%
White Goods	27	29	56	51.2%	28	30	58	51.2%
Subtotal	**583**	**364**	**948**	**38.4%**	**600**	**375**	**975**	**38.4%**
Yard Waste								
Leaves and Grass	1,237	27	1,264	2.2%	1,273	28	1,301	2.2%
Branches and Brush	976	30	1,007	3.0%	1,005	31	1,036	3.0%
Subtotal	**2,213**	**58**	**2,271**	**2.5%**	**2,277**	**59**	**2,337**	**2.5%**
Organics								
Food	964	0	964	0.0%	992	0	992	0.0%
Rubber/Tires	114	0	114	0.0%	117	0	117	0.0%
Wood	620	0	620	0.0%	638	0	638	0.0%
Agri. Crop Residue	42	0	42	0.0%	44	0	44	0.0%
Manure	31	0	31	0.0%	32	0	32	0.0%
Textiles/Leather	363	0	363	0.0%	373	0	373	0.0%
Diapers	312	4	316	1.3%	321	4	326	1.3%
Other Organics	189	0	189	0.0%	194	0	194	0.0%
Subtotal	**2,636**	**4**	**2,640**	**0.2%**	**2,713**	**4**	**2,717**	**0.2%**
Other Wastes								
Inert Solids	733	0	733	0.0%	754	0	754	0.0%
Hazardous Waste	44	0	44	0.0%	45	0	45	0.0%
Appliances	48	0	48	0.0%	49	0	49	0.0%
Subtotal	**824**	**0**	**824**	**0.0%**	**848**	**0**	**848**	**0.0%**
Ash	55	0	55	0.0%	56	0	56	0.0%
Sewage Sludge	0	0	0	0.0%	0	0	0	0.0%
Industrial Sludge	0	0	0	0.0%	0	0	0	0.0%
Asbestos	0	0	0	0.0%	0	0	0	0.0%
Auto Shredder Waste	0	0	0	0.0%	0	0	0	0.0%
Auto Bodies	0	0	0	0.0%	0	0	0	0.0%
Stuffed Furn./Mattresses	200	0	200	0.0%	206	0	206	0.0%
Subtotal	**255**	**0**	**255**	**0.0%**	**262**	**0**	**262**	**0.0%**
Total Waste	**10,532**	**793**	**11,325**	**7.0%**	**10,837**	**816**	**11,653**	**7.0%**

15 YEAR WASTE GENERATION PROJECTIONS - City of Exeter

Existing Conditions

WASTE TYPE	2003				2004			
	Disposal	Diversion	Generation	Diversion Percent	Disposal	Diversion	Generation	Diversion Percent
Paper								
OCC/Kraft	838	332	1,170	28.4%	862	342	1,204	28.4%
Magazines	115	0	115	0.0%	118	0	118	0.0%
Mixed Paper	874	0	874	0.0%	900	0	900	0.0%
Newspaper	551	0	551	0.0%	567	0	567	0.0%
High Grade	133	0	133	0.0%	137	0	137	0.0%
Other Paper	597	0	597	0.0%	615	0	615	0.0%
Subtotal	**3,109**	**332**	**3,441**	**9.7%**	**3,199**	**342**	**3,541**	**9.7%**
Plastic								
HDPE	88	0	88	0.0%	91	0	91	0.0%
PET	29	6	35	16.7%	30	6	36	16.7%
Film Plastics	306	0	306	0.0%	315	0	315	0.0%
Polystyrene	67	0	67	0.0%	69	0	69	0.0%
Other Plastic	268	0	268	0.0%	276	0	276	0.0%
Subtotal	**758**	**6**	**764**	**0.8%**	**780**	**6**	**786**	**0.8%**
Glass								
Refillable Beverage	7	0	7	0.0%	7	0	7	0.0%
CA Redemption Value	120	38	158	23.9%	124	39	163	23.9%
Other Recyclable	202	13	215	6.1%	207	13	221	6.1%
Other Non-recyclable	59	0	59	0.0%	61	0	61	0.0%
Subtotal	**389**	**51**	**439**	**11.6%**	**400**	**52**	**452**	**11.6%**
Metals								
Aluminum Cans	25	128	152	83.8%	25	131	157	83.8%
Other Aluminum	26	15	41	35.7%	27	15	42	35.7%
Bi-metal Cans	13	0	13	0.0%	13	0	13	0.0%
Steel Food & Bev. Cans	178	120	299	40.3%	184	124	307	40.3%
Other Ferrous	339	93	432	21.5%	349	95	445	21.5%
Other Non-ferrous	7	0	7	0.0%	7	0	7	0.0%
White Goods	29	30	59	51.2%	30	31	61	51.2%
Subtotal	**618**	**386**	**1,003**	**38.4%**	**636**	**397**	**1,033**	**38.4%**
Yard Waste								
Leaves and Grass	1,309	29	1,338	2.2%	1,347	30	1,377	2.2%
Branches and Brush	1,034	32	1,066	3.0%	1,064	33	1,097	3.0%
Subtotal	**2,343**	**61**	**2,404**	**2.5%**	**2,411**	**63**	**2,474**	**2.5%**
Organics								
Food	1,021	0	1,021	0.0%	1,050	0	1,050	0.0%
Rubber Tires	120	0	120	0.0%	124	0	124	0.0%
Wood	657	0	657	0.0%	676	0	676	0.0%
Agri. Crop Residue	45	0	45	0.0%	46	0	46	0.0%
Manure	33	0	33	0.0%	34	0	34	0.0%
Textiles/Leather	384	0	384	0.0%	395	0	395	0.0%
Diapers	331	4	335	1.3%	340	4	345	1.3%
Other Organics	200	0	200	0.0%	206	0	206	0.0%
Subtotal	**2,791**	**4**	**2,796**	**0.2%**	**2,872**	**4**	**2,877**	**0.2%**
Other Wastes								
Inert Solids	776	0	776	0.0%	798	0	798	0.0%
Hazardous Waste	46	0	46	0.0%	48	0	48	0.0%
Appliances	51	0	51	0.0%	52	0	52	0.0%
Subtotal	**873**	**0**	**873**	**0.0%**	**898**	**0**	**898**	**0.0%**
Ash	58	0	58	0.0%	60	0	60	0.0%
Sewage Sludge	0	0	0	0.0%	0	0	0	0.0%
Industrial Sludge	0	0	0	0.0%	0	0	0	0.0%
Asbestos	0	0	0	0.0%	0	0	0	0.0%
Auto Shredder Waste	0	0	0	0.0%	0	0	0	0.0%
Auto Bodies	0	0	0	0.0%	0	0	0	0.0%
Stuffed Furn./Mattresses	212	0	212	0.0%	218	0	218	0.0%
Subtotal	**270**	**0**	**270**	**0.0%**	**278**	**0**	**278**	**0.0%**
Total Waste	**11,151**	**840**	**11,991**	**7.0%**	**11,475**	**864**	**12,339**	**7.0%**

15 YEAR WASTE GENERATION PROJECTIONS
City of Exeter - Existing Conditions

WASTE TYPE	2005			
	Disposal	Diversion	Generation	Diversion Percent
Paper				
OCC/Kraft	887	352	1,239	28.4%
Magazines	121	0	121	0.0%
Mixed Paper	926	0	926	0.0%
Newspaper	583	0	583	0.0%
High Grade	141	0	141	0.0%
Other Paper	633	0	633	0.0%
Subtotal	**3,292**	**352**	**3,644**	**9.7%**
Plastic				
HDPE	94	0	94	0.0%
PET	31	6	37	16.7%
Film Plastics	324	0	324	0.0%
Polystyrene	71	0	71	0.0%
Other Plastic	284	0	284	0.0%
Subtotal	**803**	**6**	**809**	**0.8%**
Glass				
Refillable Beverage	8	0	8	0.0%
CA Redemption Value	127	40	167	23.9%
Other Recyclable	213	14	227	6.1%
Other Non-recyclable	63	0	63	0.0%
Subtotal	**411**	**54**	**465**	**11.6%**
Metals				
Aluminum Cans	26	135	161	83.8%
Other Aluminum	28	15	43	35.7%
Bi-metal Cans	14	0	14	0.0%
Steel Food & Bev. Cans	189	127	316	40.3%
Other Ferrous	359	98	458	21.5%
Other Non-ferrous	8	0	8	0.0%
White Goods	31	32	63	51.2%
Subtotal	**654**	**408**	**1,063**	**38.4%**
Yard Waste				
Leaves and Grass	1,386	31	1,417	2.2%
Branches and Brush	1,095	34	1,129	3.0%
Subtotal	**2,481**	**64**	**2,546**	**2.5%**
Organics				
Food	1,081	0	1,081	0.0%
Rubber/Tires	127	0	127	0.0%
Wood	696	0	696	0.0%
Agri. Crop Residue	48	0	48	0.0%
Manure	35	0	35	0.0%
Textiles/Leather	407	0	407	0.0%
Diapers	350	5	355	1.3%
Other Organics	212	0	212	0.0%
Subtotal	**2,956**	**5**	**2,960**	**0.2%**
Other Wastes				
Inert Solids	821	0	821	0.0%
Hazardous Waste	49	0	49	0.0%
Appliances	54	0	54	0.0%
Subtotal	**924**	**0**	**924**	**0.0%**
Ash	61	0	61	0.0%
Sewage Sludge	0	0	0	0.0%
Industrial Sludge	0	0	0	0.0%
Asbestos	0	0	0	0.0%
Auto Shredder Waste	0	0	0	0.0%
Auto Bodies	0	0	0	0.0%
Stuffed Furn./Mattresses	224	0	224	0.0%
Subtotal	**286**	**0**	**286**	**0.0%**
Total Waste	**11,807**	**889**	**12,696**	**7.0%**

15 YEAR WASTE GENERATION PROJECTIONS - City of Exeter

With Program Implementation

WASTE TYPE	1991				1992			
	Disposal	Diversion	Generation	Diversion Percent	Disposal	Diversion	Generation	Diversion Percent
Paper								
OCC/Kraft	595	236	830	28.4%	612	242	854	28.4%
Magazines	81	0	81	0.0%	84	0	84	0.0%
Mixed Paper	620	0	620	0.0%	638	0	638	0.0%
Newspaper	391	0	391	0.0%	402	0	402	0.0%
High Grade	95	0	95	0.0%	97	0	97	0.0%
Other Paper	424	0	424	0.0%	436	0	436	0.0%
Subtotal	**2,206**	**236**	**2,442**	**9.7%**	**2,270**	**242**	**2,513**	**9.7%**
Plastic								
HDPE	63	0	63	0.0%	65	0	65	0.0%
PET	21	4	25	16.7%	21	4	25	16.7%
Film Plastics	217	0	217	0.0%	223	0	223	0.0%
Polystyrene	47	0	47	0.0%	49	0	49	0.0%
Other Plastic	190	0	190	0.0%	196	0	196	0.0%
Subtotal	**538**	**4**	**542**	**0.8%**	**554**	**4**	**558**	**0.8%**
Glass								
Refillable Beverage	5	0	5	0.0%	5	0	5	0.0%
CA Redemption Value	85	27	112	23.9%	88	28	115	23.9%
Other Recyclable	143	9	152	6.1%	147	10	157	6.1%
Other Non-recyclable	42	0	42	0.0%	43	0	43	0.0%
Subtotal	**276**	**36**	**312**	**11.6%**	**284**	**37**	**321**	**11.6%**
Metals								
Aluminum Cans	17	91	108	83.8%	18	93	111	83.8%
Other Aluminum	19	10	29	35.7%	19	11	30	35.7%
Bi-metal Cans	9	0	9	0.0%	10	0	10	0.0%
Steel Food & Bev. Cans	127	85	212	40.3%	130	88	218	40.3%
Other Ferrous	241	66	307	21.5%	248	68	316	21.5%
Other Non-ferrous	5	0	5	0.0%	5	0	5	0.0%
White Goods	21	22	42	51.2%	21	22	43	51.2%
Subtotal	**438**	**274**	**712**	**38.4%**	**451**	**282**	**733**	**38.4%**
Yard Waste								
Leaves and Grass	929	21	950	2.2%	956	21	977	2.2%
Branches and Brush	734	23	756	3.0%	755	23	778	3.0%
Subtotal	**1,663**	**43**	**1,706**	**2.5%**	**1,711**	**44**	**1,756**	**2.5%**
Organics								
Food	724	0	724	0.0%	745	0	745	0.0%
Rubber/Tires	85	0	85	0.0%	88	0	88	0.0%
Wood	466	0	466	0.0%	480	0	480	0.0%
Agri. Crop Residue	32	0	32	0.0%	33	0	33	0.0%
Manure	24	0	24	0.0%	24	0	24	0.0%
Textiles/Leather	273	0	273	0.0%	281	0	281	0.0%
Diapers	235	3	238	1.3%	241	3	245	1.3%
Other Organics	142	0	142	0.0%	146	0	146	0.0%
Subtotal	**1,981**	**3**	**1,984**	**0.2%**	**2,038**	**3**	**2,041**	**0.2%**
Other Wastes								
Inert Solids	551	0	551	0.0%	566	0	566	0.0%
Hazardous Waste	33	0	33	0.0%	34	0	34	0.0%
Appliances	36	0	36	0.0%	37	0	37	0.0%
Subtotal	**619**	**0**	**619**	**0.0%**	**637**	**0**	**637**	**0.0%**
Ash	41	0	41	0.0%	42	0	42	0.0%
Sewage Sludge	0	0	0	0.0%	0	0	0	0.0%
Industrial Sludge	0	0	0	0.0%	0	0	0	0.0%
Asbestos	0	0	0	0.0%	0	0	0	0.0%
Auto Shredder Waste	0	0	0	0.0%	0	0	0	0.0%
Auto Bodies	0	0	0	0.0%	0	0	0	0.0%
Stuffed Furn./Mattresses	150	0	150	0.0%	155	0	155	0.0%
Subtotal	**191**	**0**	**191**	**0.0%**	**197**	**0**	**197**	**0.0%**
Total Waste	**7,913**	**596**	**8,509**	**7.0%**	**8,142**	**613**	**8,756**	**7.0%**

15 YEAR WASTE GENERATION PROJECTIONS - City of Exeter

With Program Implementation

WASTE TYPE	1993				1994			
	Disposal	Diversion	Generation	Diversion Percent	Disposal	Diversion	Generation	Diversion Percent
Paper								
OCC/Kraft	630	250	879	28.4%	648	257	905	28.4%
Magazines	86	0	86	0.0%	89	0	89	0.0%
Mixed Paper	657	0	657	0.0%	676	0	676	0.0%
Newspaper	414	0	414	0.0%	426	0	426	0.0%
High Grade	100	0	100	0.0%	103	0	103	0.0%
Other Paper	449	0	449	0.0%	462	0	462	0.0%
Subtotal	**2,336**	**250**	**2,585**	**9.7%**	**2,404**	**257**	**2,660**	**9.7%**
Plastic								
HDPE	66	0	66	0.0%	68	0	68	0.0%
PET	22	4	26	16.7%	22	4	27	16.7%
Film Plastics	230	0	230	0.0%	237	0	237	0.0%
Polystyrene	50	0	50	0.0%	52	0	52	0.0%
Other Plastic	202	0	202	0.0%	207	0	207	0.0%
Subtotal	**570**	**4**	**574**	**0.8%**	**586**	**4**	**591**	**0.8%**
Glass								
Refillable Beverage	5	0	5	0.0%	6	0	6	0.0%
CA Redemption Value	90	28	119	23.9%	93	29	122	23.9%
Other Recyclable	151	10	161	6.1%	156	10	166	6.1%
Other Non-recyclable	45	0	45	0.0%	46	0	46	0.0%
Subtotal	**292**	**38**	**330**	**11.6%**	**300**	**39**	**340**	**11.6%**
Metals								
Aluminum Cans	19	96	114	83.8%	19	99	118	83.8%
Other Aluminum	20	11	31	35.7%	20	11	31	35.7%
Bi-metal Cans	10	0	10	0.0%	10	0	10	0.0%
Steel Food & Bev. Cans	134	90	224	40.3%	138	93	231	40.3%
Other Ferrous	255	70	325	21.5%	262	72	334	21.5%
Other Non-ferrous	5	0	5	0.0%	6	0	6	0.0%
White Goods	22	23	45	51.2%	22	24	46	51.2%
Subtotal	**464**	**290**	**754**	**38.4%**	**478**	**298**	**776**	**38.4%**
Yard Waste								
Leaves and Grass	984	22	1,006	2.2%	1,012	22	1,035	2.2%
Branches and Brush	777	24	801	3.0%	799	25	824	3.0%
Subtotal	**1,761**	**46**	**1,806**	**2.5%**	**1,812**	**47**	**1,859**	**2.5%**
Organics								
Food	767	0	767	0.0%	789	0	789	0.0%
Rubber/Tires	90	0	90	0.0%	93	0	93	0.0%
Wood	494	0	494	0.0%	508	0	508	0.0%
Agri. Crop Residue	34	0	34	0.0%	35	0	35	0.0%
Manure	25	0	25	0.0%	26	0	26	0.0%
Textiles/Leather	289	0	289	0.0%	297	0	297	0.0%
Diapers	248	3	252	1.3%	256	3	259	1.3%
Other Organics	150	0	150	0.0%	155	0	155	0.0%
Subtotal	**2,097**	**3**	**2,101**	**0.2%**	**2,158**	**3**	**2,162**	**0.2%**
Other Wastes								
Inert Solids	583	0	583	0.0%	600	0	600	0.0%
Hazardous Waste	35	0	35	0.0%	36	0	36	0.0%
Appliances	38	0	38	0.0%	39	0	39	0.0%
Subtotal	**656**	**0**	**656**	**0.0%**	**675**	**0**	**675**	**0.0%**
Ash	44	0	44	0.0%	45	0	45	0.0%
Sewage Sludge	0	0	0	0.0%	0	0	0	0.0%
Industrial Sludge	0	0	0	0.0%	0	0	0	0.0%
Asbestos	0	0	0	0.0%	0	0	0	0.0%
Auto Shredder Waste	0	0	0	0.0%	0	0	0	0.0%
Auto Bodies	0	0	0	0.0%	0	0	0	0.0%
Stuffed Furn./Mattresses	159	0	159	0.0%	164	0	164	0.0%
Subtotal	**203**	**0**	**203**	**0.0%**	**209**	**0**	**209**	**0.0%**
Total Waste	**8,379**	**631**	**9,009**	**7.0%**	**8,622**	**649**	**9,271**	**7.0%**

15 YEAR WASTE GENERATION PROJECTIONS - City of Exeter

With Program Implementation

WASTE TYPE	1995				1996			
	Disposal	Diversion	Generation	Diversion Percent	Disposal	Diversion	Generation	Diversion Percent
Paper								
OCC/Kraft	667	264	931	28.4%	686	272	958	28.4%
Magazines	91	0	91	0.0%	94	0	94	0.0%
Mixed Paper	696	0	696	0.0%	716	0	716	0.0%
Newspaper	438	0	438	0.0%	451	0	451	0.0%
High Grade	106	0	106	0.0%	109	0	109	0.0%
Other Paper	475	0	475	0.0%	489	0	489	0.0%
Subtotal	**2,473**	**264**	**2,738**	**9.7%**	**2,545**	**272**	**2,817**	**9.7%**
Plastic								
HDPE	70	0	70	0.0%	72	0	72	0.0%
PET	23	5	28	16.7%	24	5	28	16.7%
Film Plastics	243	0	243	0.0%	250	0	250	0.0%
Polystyrene	53	0	53	0.0%	55	0	55	0.0%
Other Plastic	213	0	213	0.0%	220	0	220	0.0%
Subtotal	**603**	**5**	**608**	**0.8%**	**621**	**5**	**626**	**0.8%**
Glass								
Refillable Beverage	6	0	6	0.0%	6	0	6	0.0%
CA Redemption Value	96	30	126	23.9%	99	31	129	23.9%
Other Recyclable	160	10	171	6.1%	165	11	176	6.1%
Other Non-recyclable	47	0	47	0.0%	49	0	49	0.0%
Subtotal	**309**	**40**	**350**	**11.6%**	**318**	**42**	**360**	**11.6%**
Metals								
Aluminum Cans	20	102	121	83.8%	20	104	125	83.8%
Other Aluminum	21	12	32	35.7%	21	12	33	35.7%
Bi-metal Cans	10	0	10	0.0%	11	0	11	0.0%
Steel Food & Bev. Cans	142	96	238	40.3%	146	99	245	40.3%
Other Ferrous	270	74	344	21.5%	278	76	354	21.5%
Other Non-ferrous	6	0	6	0.0%	6	0	6	0.0%
White Goods	23	24	47	51.2%	24	25	49	51.2%
Subtotal	**491**	**307**	**798**	**38.4%**	**506**	**316**	**821**	**38.4%**
Yard Waste								
Leaves and Grass	682	383	1,065	36.0%	702	394	1,096	36.0%
Branches and Brush	563	285	848	33.7%	579	294	873	33.7%
Subtotal	**1,244**	**668**	**1,913**	**34.9%**	**1,280**	**688**	**1,968**	**34.9%**
Organics								
Food	812	0	812	0.0%	836	0	836	0.0%
Rubber/Tires	96	0	96	0.0%	99	0	99	0.0%
Wood	523	0	523	0.0%	538	0	538	0.0%
Agri. Crop Residue	36	0	36	0.0%	37	0	37	0.0%
Manure	27	0	27	0.0%	27	0	27	0.0%
Textiles/Leather	306	0	306	0.0%	315	0	315	0.0%
Diapers	263	3	266	1.3%	271	4	274	1.3%
Other Organics	159	0	159	0.0%	164	0	164	0.0%
Subtotal	**2,221**	**3**	**2,224**	**0.2%**	**2,285**	**4**	**2,289**	**0.2%**
Other Wastes								
Inert Solids	617	0	617	0.0%	635	0	635	0.0%
Hazardous Waste	37	0	37	0.0%	38	0	38	0.0%
Appliances	40	0	40	0.0%	42	0	42	0.0%
Subtotal	**695**	**0**	**695**	**0.0%**	**715**	**0**	**715**	**0.0%**
Ash	46	0	46	0.0%	47	0	47	0.0%
Sewage Sludge	0	0	0	0.0%	0	0	0	0.0%
Industrial Sludge	0	0	0	0.0%	0	0	0	0.0%
Asbestos	0	0	0	0.0%	0	0	0	0.0%
Auto Shredder Waste	0	0	0	0.0%	0	0	0	0.0%
Auto Bodies	0	0	0	0.0%	0	0	0	0.0%
Stuffed Furn./Mattresses	168	0	168	0.0%	173	0	173	0.0%
Subtotal	**215**	**0**	**215**	**0.0%**	**221**	**0**	**221**	**0.0%**
Total Waste	**8,252**	**1,288**	**9,540**	**13.5%**	**8,491**	**1,325**	**9,816**	**13.5%**

15 YEAR WASTE GENERATION PROJECTIONS - City of Exeter

With Program Implementation

WASTE TYPE	1997				1998			
	Disposal	Diversion	Generation	Diversion Percent	Disposal	Diversion	Generation	Diversion Percent
Paper								
OCC/Kraft	706	280	986	28.4%	727	288	1,014	28.4%
Magazines	97	0	97	0.0%	99	0	99	0.0%
Mixed Paper	737	0	737	0.0%	758	0	758	0.0%
Newspaper	464	0	464	0.0%	478	0	478	0.0%
High Grade	112	0	112	0.0%	116	0	116	0.0%
Other Paper	503	0	503	0.0%	518	0	518	0.0%
Subtotal	**2,619**	**280**	**2,899**	**9.7%**	**2,695**	**288**	**2,983**	**9.7%**
Plastic								
HDPE	75	0	75	0.0%	77	0	77	0.0%
PET	24	5	29	16.7%	25	5	30	16.7%
Film Plastics	258	0	258	0.0%	265	0	265	0.0%
Polystyrene	56	0	56	0.0%	58	0	58	0.0%
Other Plastic	226	0	226	0.0%	233	0	233	0.0%
Subtotal	**639**	**5**	**644**	**0.8%**	**657**	**5**	**662**	**0.8%**
Glass								
Refillable Beverage	6	0	6	0.0%	6	0	6	0.0%
CA Redemption Value	101	32	133	23.9%	104	33	137	23.9%
Other Recyclable	170	11	181	6.1%	175	11	186	6.1%
Other Non-recyclable	50	0	50	0.0%	52	0	52	0.0%
Subtotal	**327**	**43**	**370**	**11.6%**	**337**	**44**	**381**	**11.6%**
Metals								
Aluminum Cans	21	107	128	83.8%	21	111	132	83.8%
Other Aluminum	22	12	34	35.7%	23	13	35	35.7%
Bi-metal Cans	11	0	11	0.0%	11	0	11	0.0%
Steel Food & Bev. Cans	150	101	252	40.3%	155	104	259	40.3%
Other Ferrous	286	78	364	21.5%	294	80	375	21.5%
Other Non-ferrous	6	0	6	0.0%	6	0	6	0.0%
White Goods	24	26	50	51.2%	25	26	52	51.2%
Subtotal	**520**	**325**	**845**	**38.4%**	**535**	**334**	**870**	**38.4%**
Yard Waste								
Leaves and Grass	722	406	1,127	36.0%	743	417	1,160	36.0%
Branches and Brush	596	302	898	33.7%	613	311	924	33.7%
Subtotal	**1,318**	**708**	**2,025**	**34.9%**	**1,356**	**728**	**2,084**	**34.9%**
Organics								
Food	860	0	860	0.0%	885	0	885	0.0%
Rubber/Tires	101	0	101	0.0%	104	0	104	0.0%
Wood	553	0	553	0.0%	569	0	569	0.0%
Agri. Crop Residue	38	0	38	0.0%	39	0	39	0.0%
Manure	28	0	28	0.0%	29	0	29	0.0%
Textiles/Leather	324	0	324	0.0%	333	0	333	0.0%
Diapers	279	4	282	1.3%	287	4	290	1.3%
Other Organics	169	0	169	0.0%	173	0	173	0.0%
Subtotal	**2,351**	**4**	**2,355**	**0.2%**	**2,420**	**4**	**2,423**	**0.2%**
Other Wastes								
Inert Solids	654	0	654	0.0%	672	0	672	0.0%
Hazardous Waste	39	0	39	0.0%	40	0	40	0.0%
Appliances	43	0	43	0.0%	44	0	44	0.0%
Subtotal	**735**	**0**	**735**	**0.0%**	**757**	**0**	**757**	**0.0%**
Ash	49	0	49	0.0%	50	0	50	0.0%
Sewage Sludge	0	0	0	0.0%	0	0	0	0.0%
Industrial Sludge	0	0	0	0.0%	0	0	0	0.0%
Asbestos	0	0	0	0.0%	0	0	0	0.0%
Auto Shredder Waste	0	0	0	0.0%	0	0	0	0.0%
Auto Bodies	0	0	0	0.0%	0	0	0	0.0%
Stuffed Furn./Mattresses	178	0	178	0.0%	184	0	184	0.0%
Subtotal	**227**	**0**	**227**	**0.0%**	**234**	**0**	**234**	**0.0%**
Total Waste	**8,737**	**1,364**	**10,101**	**13.5%**	**8,991**	**1,403**	**10,394**	**13.5%**

15 YEAR WASTE GENERATION PROJECTIONS - City of Exeter

With Program Implementation

WASTE TYPE	1999				2000			
	Disposal	Diversion	Generation	Diversion Percent	Disposal	Diversion	Generation	Diversion Percent
Paper								
OCC/Kraft	748	296	1,044	28.4%	271	803	1,074	74.8%
Magazines	102	0	102	0.0%	83	22	105	21.0%
Mixed Paper	780	0	780	0.0%	632	171	803	21.3%
Newspaper	491	0	491	0.0%	172	334	506	66.0%
High Grade	119	0	119	0.0%	65	56	121	46.3%
Other Paper	533	0	533	0.0%	432	117	549	21.3%
Subtotal	**2,773**	**296**	**3,069**	**9.7%**	**1,655**	**1,503**	**3,158**	**47.6%**
Plastic								
HDPE	79	0	79	0.0%	44	38	82	46.3%
PET	26	5	31	16.7%	12	20	32	62.5%
Film Plastics	273	0	273	0.0%	221	60	281	21.4%
Polystyrene	59	0	59	0.0%	48	14	62	22.6%
Other Plastic	239	0	239	0.0%	193	52	245	21.2%
Subtotal	**676**	**5**	**682**	**0.8%**	**518**	**184**	**702**	**26.2%**
Glass								
Refillable Beverage	6	0	6	0.0%	7	0	7	0.0%
CA Redemption Value	107	34	141	23.9%	43	102	145	70.3%
Other Recyclable	180	12	191	6.1%	94	103	197	52.3%
Other Non-recyclable	53	0	53	0.0%	55	0	55	0.0%
Subtotal	**347**	**45**	**392**	**11.6%**	**199**	**205**	**404**	**50.7%**
Metals								
Aluminum Cans	22	114	136	83.8%	14	126	140	90.0%
Other Aluminum	23	13	36	35.7%	7	31	38	81.6%
Bi-metal Cans	12	0	12	0.0%	10	3	13	23.1%
Steel Food & Bev. Cans	159	107	266	40.3%	105	169	274	61.7%
Other Ferrous	303	83	385	21.5%	128	269	397	67.8%
Other Non-ferrous	6	0	6	0.0%	5	1	6	16.7%
White Goods	26	27	53	51.2%	1	53	54	98.1%
Subtotal	**551**	**344**	**895**	**38.4%**	**270**	**652**	**922**	**70.7%**
Yard Waste								
Leaves and Grass	764	429	1,194	36.0%	193	1,036	1,229	84.3%
Branches and Brush	631	320	951	33.7%	201	777	978	79.4%
Subtotal	**1,395**	**749**	**2,144**	**34.9%**	**394**	**1,813**	**2,207**	**82.1%**
Organics								
Food	911	0	911	0.0%	638	300	938	32.0%
Rubber/Tires	107	0	107	0.0%	111	0	111	0.0%
Wood	586	0	586	0.0%	224	379	603	62.9%
Agri. Crop Residue	40	0	40	0.0%	42	0	42	0.0%
Manure	30	0	30	0.0%	30	0	30	0.0%
Textiles/Leather	343	0	343	0.0%	352	0	352	0.0%
Diapers	295	4	299	1.3%	304	4	308	1.3%
Other Organics	178	0	178	0.0%	184	0	184	0.0%
Subtotal	**2,490**	**4**	**2,494**	**0.2%**	**1,885**	**683**	**2,568**	**26.6%**
Other Wastes								
Inert Solids	692	0	692	0.0%	245	468	713	65.6%
Hazardous Waste	41	0	41	0.0%	43	0	43	0.0%
Appliances	45	0	45	0.0%	46	0	46	0.0%
Subtotal	**779**	**0**	**779**	**0.0%**	**334**	**468**	**802**	**58.4%**
Ash	52	0	52	0.0%	53	0	53	0.0%
Sewage Sludge	0	0	0	0.0%	0	0	0	0.0%
Industrial Sludge	0	0	0	0.0%	0	0	0	0.0%
Asbestos	0	0	0	0.0%	0	0	0	0.0%
Auto Shredder Waste	0	0	0	0.0%	0	0	0	0.0%
Auto Bodies	0	0	0	0.0%	0	0	0	0.0%
Stuffed Furn./Mattresses	189	0	189	0.0%	194	0	194	0.0%
Subtotal	**241**	**0**	**241**	**0.0%**	**247**	**0**	**247**	**0.0%**
Total Waste	9,251	1,444	10,695	13.5%	5,502	5,508	11,010	50.0%

15 YEAR WASTE GENERATION PROJECTIONS - City of Exeter

With Program Implementation

WASTE TYPE	2001 Disposal	2001 Diversion	2001 Generation	2001 Diversion Percent	2002 Disposal	2002 Diversion	2002 Generation	2002 Diversion Percent
Paper								
OCC/Kraft	279	826	1,105	74.8%	287	850	1,137	74.8%
Magazines	85	23	108	21.0%	88	23	111	21.0%
Mixed Paper	650	176	826	21.3%	669	181	850	21.3%
Newspaper	177	344	521	66.0%	182	354	536	66.0%
High Grade	67	58	125	46.3%	69	59	128	46.3%
Other Paper	445	120	565	21.3%	457	124	581	21.3%
Subtotal	**1,703**	**1,547**	**3,250**	**47.6%**	**1,752**	**1,591**	**3,344**	**47.6%**
Plastic								
HDPE	45	39	84	46.3%	47	40	87	46.3%
PET	12	21	33	62.5%	13	21	34	62.5%
Film Plastics	227	62	289	21.4%	234	64	298	21.4%
Polystyrene	49	14	64	22.6%	51	15	66	22.6%
Other Plastic	199	54	252	21.2%	204	55	259	21.2%
Subtotal	**533**	**189**	**722**	**26.2%**	**548**	**195**	**743**	**26.2%**
Glass								
Refillable Beverage	7	0	7	0.0%	7	0	7	0.0%
CA Redemption Value	44	105	149	70.3%	46	108	154	70.3%
Other Recyclable	97	106	203	52.3%	100	109	209	52.3%
Other Non-recyclable	57	0	57	0.0%	58	0	58	0.0%
Subtotal	**205**	**211**	**416**	**50.7%**	**211**	**217**	**428**	**50.7%**
Metals								
Aluminum Cans	14	130	144	90.0%	15	133	148	90.0%
Other Aluminum	7	32	39	81.6%	7	33	40	81.6%
Bi-metal Cans	10	3	13	23.1%	11	3	14	23.1%
Steel Food & Bev. Cans	108	174	282	61.7%	111	179	290	61.7%
Other Ferrous	132	277	409	67.8%	136	285	420	67.8%
Other Non-ferrous	5	1	6	16.7%	5	1	6	16.7%
White Goods	1	55	56	98.1%	1	56	57	98.1%
Subtotal	**278**	**671**	**949**	**70.7%**	**286**	**690**	**976**	**70.7%**
Yard Waste								
Leaves and Grass	199	1,066	1,265	84.3%	204	1,097	1,301	84.3%
Branches and Brush	207	800	1,006	79.4%	213	823	1,036	79.4%
Subtotal	**405**	**1,866**	**2,271**	**82.1%**	**417**	**1,920**	**2,337**	**82.1%**
Organics								
Food	657	309	965	32.0%	676	318	993	32.0%
Rubber/Tires	114	0	114	0.0%	118	0	118	0.0%
Wood	230	390	620	62.9%	237	401	638	62.9%
Agri. Crop Residue	43	0	43	0.0%	44	0	44	0.0%
Manure	31	0	31	0.0%	32	0	32	0.0%
Textiles/Leather	362	0	362	0.0%	373	0	373	0.0%
Diapers	313	4	317	1.3%	322	4	326	1.3%
Other Organics	189	0	189	0.0%	195	0	195	0.0%
Subtotal	**1,940**	**703**	**2,642**	**26.6%**	**1,996**	**723**	**2,719**	**26.6%**
Other Wastes								
Inert Solids	252	482	734	65.6%	259	496	755	65.6%
Hazardous Waste	44	0	44	0.0%	46	0	46	0.0%
Appliances	47	0	47	0.0%	49	0	49	0.0%
Subtotal	**344**	**482**	**825**	**58.4%**	**354**	**496**	**849**	**58.4%**
Ash	55	0	55	0.0%	56	0	56	0.0%
Sewage Sludge	0	0	0	0.0%	0	0	0	0.0%
Industrial Sludge	0	0	0	0.0%	0	0	0	0.0%
Asbestos	0	0	0	0.0%	0	0	0	0.0%
Auto Shredder Waste	0	0	0	0.0%	0	0	0	0.0%
Auto Bodies	0	0	0	0.0%	0	0	0	0.0%
Stuffed Furn./Mattresses	200	0	200	0.0%	205	0	205	0.0%
Subtotal	**254**	**0**	**254**	**0.0%**	**262**	**0**	**262**	**0.0%**
Total Waste	**5,662**	**5,668**	**11,329**	**50.0%**	**5,826**	**5,832**	**11,658**	**50.0%**

15 YEAR WASTE GENERATION PROJECTIONS - City of Exeter

With Program Implementation

WASTE TYPE	2003				2004			
	Disposal	Diversion	Generation	Diversion Percent	Disposal	Diversion	Generation	Diversion Percent
Paper								
OCC/Kraft	295	875	1,170	74.8%	304	900	1,204	74.8%
Magazines	90	24	114	21.0%	93	25	118	21.0%
Mixed Paper	689	186	875	21.3%	709	192	900	21.3%
Newspaper	187	364	551	66.0%	193	374	567	66.0%
High Grade	71	61	132	46.3%	73	63	136	46.3%
Other Paper	471	127	598	21.3%	484	131	616	21.3%
Subtotal	**1,803**	**1,638**	**3,441**	**47.6%**	**1,855**	**1,685**	**3,541**	**47.6%**
Plastic								
HDPE	48	41	89	46.3%	49	43	92	46.3%
PET	13	22	35	62.5%	13	22	36	62.5%
Film Plastics	241	65	306	21.4%	248	67	315	21.4%
Polystyrene	52	15	68	22.6%	54	16	70	22.6%
Other Plastic	210	57	267	21.2%	216	58	275	21.2%
Subtotal	**564**	**200**	**765**	**26.2%**	**581**	**206**	**787**	**26.2%**
Glass								
Refillable Beverage	8	0	8	0.0%	8	0	8	0.0%
CA Redemption Value	47	111	158	70.3%	48	114	163	70.3%
Other Recyclable	102	112	215	52.3%	105	115	221	52.3%
Other Non-recyclable	60	0	60	0.0%	62	0	62	0.0%
Subtotal	**217**	**223**	**440**	**50.7%**	**223**	**230**	**453**	**50.7%**
Metals								
Aluminum Cans	15	137	153	90.0%	16	141	157	90.0%
Other Aluminum	8	34	41	81.6%	8	35	43	81.6%
Bi-metal Cans	11	3	14	23.1%	11	3	15	23.1%
Steel Food & Bev. Cans	114	184	299	61.7%	118	189	307	61.7%
Other Ferrous	139	293	433	67.8%	144	302	445	67.8%
Other Non-ferrous	5	1	7	16.7%	6	1	7	16.7%
White Goods	1	58	59	98.1%	1	59	61	98.1%
Subtotal	**294**	**710**	**1,005**	**70.7%**	**303**	**731**	**1,034**	**70.7%**
Yard Waste								
Leaves and Grass	210	1,129	1,339	84.3%	216	1,162	1,378	84.3%
Branches and Brush	219	847	1,066	79.4%	225	871	1,096	79.4%
Subtotal	**429**	**1,975**	**2,405**	**82.1%**	**442**	**2,033**	**2,474**	**82.1%**
Organics								
Food	695	327	1,022	32.0%	715	336	1,052	32.0%
Rubber/Tires	121	0	121	0.0%	124	0	124	0.0%
Wood	244	413	657	62.9%	251	425	676	62.9%
Agri. Crop Residue	46	0	46	0.0%	47	0	47	0.0%
Manure	33	0	33	0.0%	34	0	34	0.0%
Textiles/Leather	384	0	384	0.0%	395	0	395	0.0%
Diapers	331	4	336	1.3%	341	4	345	1.3%
Other Organics	200	0	200	0.0%	206	0	206	0.0%
Subtotal	**2,054**	**744**	**2,798**	**26.6%**	**2,113**	**766**	**2,879**	**26.6%**
Other Wastes								
Inert Solids	267	510	777	65.6%	275	525	799	65.6%
Hazardous Waste	47	0	47	0.0%	48	0	48	0.0%
Appliances	50	0	50	0.0%	52	0	52	0.0%
Subtotal	**364**	**510**	**874**	**58.4%**	**374**	**525**	**899**	**58.4%**
Ash	58	0	58	0.0%	59	0	59	0.0%
Sewage Sludge	0	0	0	0.0%	0	0	0	0.0%
Industrial Sludge	0	0	0	0.0%	0	0	0	0.0%
Asbestos	0	0	0	0.0%	0	0	0	0.0%
Auto Shredder Waste	0	0	0	0.0%	0	0	0	0.0%
Auto Bodies	0	0	0	0.0%	0	0	0	0.0%
Stuffed Furn./Mattresses	211	0	211	0.0%	218	0	218	0.0%
Subtotal	**269**	**0**	**269**	**0.0%**	**277**	**0**	**277**	**0.0%**
Total Waste	**5,995**	**6,001**	**11,996**	**50.0%**	**6,169**	**6,175**	**12,344**	**50.0%**

15 YEAR WASTE GENERATION PROJECTIONS
City of Exeter - With Program Implementation

WASTE TYPE	2005			
	Disposal	Diversion	Generation	Diversion Percent
Paper				
OCC/Kraft	313	926	1,239	74.8%
Magazines	96	25	121	21.0%
Mixed Paper	729	197	926	21.3%
Newspaper	198	385	584	66.0%
High Grade	75	65	140	46.3%
Other Paper	498	135	633	21.3%
Subtotal	**1,909**	**1,734**	**3,643**	**47.6%**
Plastic				
HDPE	51	44	95	46.3%
PET	14	23	37	62.5%
Film Plastics	255	69	324	21.4%
Polystyrene	55	16	72	22.6%
Other Plastic	223	60	283	21.2%
Subtotal	**598**	**212**	**810**	**26.2%**
Glass				
Refillable Beverage	8	0	8	0.0%
CA Redemption Value	50	118	167	70.3%
Other Recyclable	108	119	227	52.3%
Other Non-recyclable	63	0	63	0.0%
Subtotal	**230**	**236**	**466**	**50.7%**
Metals				
Aluminum Cans	16	145	162	90.0%
Other Aluminum	8	36	44	81.6%
Bi-metal Cans	12	3	15	23.1%
Steel Food & Bev. Cans	121	195	316	61.7%
Other Ferrous	148	310	458	67.8%
Other Non-ferrous	6	1	7	16.7%
White Goods	1	61	62	98.1%
Subtotal	**311**	**752**	**1,064**	**70.7%**
Yard Waste				
Leaves and Grass	223	1,195	1,418	84.3%
Branches and Brush	232	896	1,128	79.4%
Subtotal	**455**	**2,092**	**2,546**	**82.1%**
Organics				
Food	736	346	1,082	32.0%
Rubber/Tires	128	0	128	0.0%
Wood	258	437	696	62.9%
Agri. Crop Residue	48	0	48	0.0%
Manure	35	0	35	0.0%
Textiles/Leather	406	0	406	0.0%
Diapers	351	5	355	1.3%
Other Organics	212	0	212	0.0%
Subtotal	**2,175**	**788**	**2,963**	**26.6%**
Other Wastes				
Inert Solids	283	540	823	65.6%
Hazardous Waste	50	0	50	0.0%
Appliances	53	0	53	0.0%
Subtotal	**385**	**540**	**925**	**58.4%**
Ash	61	0	61	0.0%
Sewage Sludge	0	0	0	0.0%
Industrial Sludge	0	0	0	0.0%
Asbestos	0	0	0	0.0%
Auto Shredder Waste	0	0	0	0.0%
Auto Bodies	0	0	0	0.0%
Stuffed Furn./Mattresses	224	0	224	0.0%
Subtotal	**285**	**0**	**285**	**0.0%**
Total Waste	**6,347**	**6,354**	**12,702**	**50.0%**

California Integrated Waste Management Board

Local Assistance and Planning Committee
February 9, 1994
AGENDA ITEM # 5

ITEM: Consideration of Petition for Reduction in the Diversion Requirements for the City of Willows, City of Orland, and the Unincorporated County of Glenn.

BACKGROUND:

Public Resources Code (PRC) Section 41780 requires that each city and county divert 25% of its waste from landfills by 1995 and 50% by the year 2000. Source Reduction and Recycling Elements (SRREs) are prepared by the cities and counties as a planning guide for meeting the diversion mandates (PRC Section 41000 and 41300). The SRREs describe the programs which the jurisdictions will use to achieve 25% and 50% diversion. PRC Section 41782 allows the California Integrated Waste Management Board (Board) to grant reductions in planning and diversion requirements. Section 18775 of Title 14 of the California Code of Regulations (CCR), identifies the qualifications that each jurisdiction must meet to petition the Board for a reduction in the requirements.

Incorporated areas must have specific characteristics in order to petition for reductions. The required characteristics are:

1. a geographic area of less than 3 square miles,
   or
   a population density of less than 1500 people per square mile, and

2. a waste generation rate of less than 100 cubic yards pr day or 60 tons per day.

Unincorporated areas must have specific characteristics in order to petition for reductions. The required characteristics are:

1. a geographic area of less than 1500 square miles,
   or

   a population density of less than 10 people per square mile, and

2. a waste generation rate of less than 100 cubic yards per day or 60 tons/day.

Glenn County and the cities of Willows and Orland operate under a Joint Powers Agreement (JPA) to manage air, water and solid waste programs and activities. This JPA is not a regional agency as allowed under the provisions of AB 440.

Glenn County is a designated Recycling Market Development Zone (RMDZ) as of June 1992. According to the Glenn SRRE, a feedstock feasibility study conducted in conjunction with Glenn's RMDZ application, targeted yard waste processing as a top priority. Yard waste represents a major waste stream component in the County. Other feedstock types recommended for consideration include: glass to be used by Manville; mixed plastics to produce lumber or park equipment; and used tires for rubberized asphalt. The County will continue to work with existing manufacturers, pursue regional cooperation and advertise its designation as an RMDZ in developing its plans.

In addition, the County and Incorporated Cities are considering the development of several regional projects pertaining to solid waste. Projects under consideration include: a regional Household Hazardous Waste Collection/Transfer facility; and a regional Solid Waste Landfill. These projects and processes are long term in nature and are under consideration because they may provide the County with a way to realize economies of scale in operations and take advantage of its central location.

Requested Reductions

The City of Willows, City of Orland and the Unincorporated County of Glenn are each requesting a reduction of the diversion requirements of 25% by 1995 to 15%.

ANALYSIS:

County and City Characteristics

The County of Glenn is located in the Sacramento Valley approximately 80 miles northeast of the City of Sacramento. The County is predominately agricultural with a minimal mix of industrial developments in the area. The western half of the County is largely foothills and mountains with grain growing and grazing lands in the foothill areas and little population because of lack of water supply. The mountain region is primarily timber land, some part of the Mendocino Forest and some commercially-held timber lands.

There are two incorporated cities, Willows and Orland, in the County. The City of Willows is located along Interstate 5 at State Route 32 in the southeastern quadrant of the County, and is the largest population center in Glenn County. It is also the County seat and a regional center for trade and services. Willows' economic base is primarily agricultural, although there is a growing service sector associated with its proximity to the interstate highway.

The City of Orland is in the northwest quadrant of the County along Interstate 5 at State Route 32 less than 5 miles from the Tehama County line to the north. Unincorporated communities in the County include Artois, Butte City, Ordbend, Cordora, Glenn, Elk Creek, Afton and Bayliss.

The Unincorporated County of Glenn meets the criteria to petition the Board for reduced diversion and/or planning goals. Unincorporated Glenn County has a population density of 11 persons per square mile, and a waste generation rate of 27 tons per day.

The City of Willows meets the criteria to petition as it has a waste generation rate of 26 tons per day and an area of 1.25 square miles.

The City of Orland similarly meets the criteria to petition as it has a waste generation rate of 22 tons per day and an area of 2.0 square miles.

Solid Waste Collection and Disposal

Refuse collection is not mandatory anywhere in the unincorporated County or the two incorporated cities. Solid waste collection and transfer to the Class III disposal site located 5 miles west of the community of Artois, is either self-haul residential, self-haul commercial or commercial collection service. Two commercial haulers service the County and cities: Glenn County Disposal serving the cities of Orland and Willows and the majority of the eastern County area; Stoney Creek Garbage serving the less populated western area of the County.

In 1990, according to the Petition, the Unincorporated County disposed of 8,673 Tons Per Year, the City of Orland disposed of 6,571 Tons Per Year and the City of Willows disposed of 8,474 Tons Per Year. In 1990, total JPA Municipal Solid Waste disposed was 23,718 tons. In 1990, statewide disposal totaled 42.5 million tons. The Glenn JPA waste disposal equals .05% of the state disposal amount in 1990.

As of January 1, 1990 Glenn County has an estimated 32 years of remaining landfill capacity according to the Board's Interim Report on landfill capacity.

Current Diversion Programs

Private Sector

Glenn County Disposal operates a single California redemption buyback center in Willows. Another certified redemption center operated by Western Recyclers is located on County Road 200 in the unincorporated County. North Valley Services, a nonprofit organization in Orland, provides drop-off facilities for a variety of materials including: CRV aluminum, glass and plastics, corrugated cardboard, newsprint, high grade ledger paper and other recyclable glass.

County-City

A recycling coordinator has been transferred to the Public Works Department from the Planning Department to manage the planned diversion programs. The incumbent is working with the Glenn County Economic Development Corporation to educate and enlist businesses to develop procurement policies and make a commitment to buy recycled.

Other activities have included public education presentations to schools and community groups, and use of an information and education booth at the Glenn County Fair and fall Harvest Festival.

Total

The following table summarizes the amounts and materials diverted in 1990 as reported in the Petition for Reduction for Unincorporated Glenn County and the Incorporated Cities of Willows and Orland.

1990 DIVERSION BY MATERIAL TYPE
Tons Per Year

Material Type	Unincorp.	Orland	Willows
Paper	16.6	272.6	186.6
Plastics	2.2	10.8	0.4

Glass	87.8	134.2	16.3
Aluminum	139.6	96.4	55.6
Yard Waste	136.6	47.0	51.8
Organics	116.9	262.4	61.8
Total	499.6	823.5	471.8
% Diversion	5.3	11.0	5.2

Proposed Diversion

Upon evaluation of various alternatives, the Glenn JPA has determined that the following programs will be pursued. These programs have been determined to be cost effective and can be implemented on a countywide basis with County-City compatibility.

1995 PROPOSED DIVERSION PROGRAMS
Percentage

Program	Unincorp.	Orland	Willows
Source Reduc.			
Info/Ed.-Res. (inc.compost)	1.2	0.8	1.3
Info/Ed.-Comm.	0.8	0.8	1.5
Procurement	0.5	0.3	0.3
Recycling			
Curbside	2.0	2.0	2.6
Drop-Off	2.5	0.0	0.0
Com.Gls-OCC	1.6	1.8	2.6
Public Educ.			
Schools	1.2	0.5	1.5
Existing	5.3	11.0	5.2
Total	15.1	17.2	15.0

Finally, the County and Cities are proposing a Household Hazardous Waste event and purchase of a used oil recycling tank.

Funding

From 1989 through 1992, Glenn County's solid waste budget has been substantially derived by a $35.00 residential parcel fee.

According to a 1993-94 revenue estimate, this fee will contribute approximately 73% ($312,550 annually) of total projected revenue ($430,990.00). Other revenue sources include the annual solid waste commercial fee (less than 3% of revenue), landfill gate fees from business and industrial accounts (16% of revenue), with the balance of gate fees contributing 2%. Other income sources are interest on county reserve accounts, periodic grant funding and transfer accounts (6% of revenue).

The combined Glenn County, City of Willows and City of Orland 1992-93 Solid Waste budget are detailed in the following table.

1992-93 FUNDING

Revenue	$451,099
with Fund Balances	$703,087
Expenses	
Administration	$146,548
Capital Costs & Facilities	$201,301
Mandated Compliance Programs	$264,800
Solid Waste Diversion	$37,000
Total	$649,649

PROJECTED 1993-94 FUNDING

Revenue	$430,990
Expenses	
Administration	$170,319
Capital Costs & Facilities	$294,500
Mandated Compliance Programs	$241,600
Solid Waste Diversion	$64,000
Total	$770,419

Of the $64,000 targeted in 1993-94 for Diversion Programs, $29,000 is earmarked for Hazardous Waste and RMDZ costs, leaving a balance of $35,000 for residential-commercial solid waste diversion activities and programs. By comparison, 1992-93 diversion funding amounted to $10,000 for Source Reduction. The $27,000 diversion balance for 1992-93 included HHW and CEQA costs.

Future Funding

In early 1993 Glenn County, the City of Willows and the City of Orland commissioned a funding study to evaluate fee schedules and identify potential funding mechanisms for future needs.

Two funding scenarios have been identified. The first scenario is based upon increasing present fees (i.e., residential, commercial and gate) and is projected to generate $852,250 per year.

The second scenario would retain existing fees and allow waste import of 50 Tons Per Day (at $25.00/ton) generating an estimated $1,151,750 per year.

The Glenn County Board of Supervisors has accepted the Department of Public Works' funding analysis and has directed the Department to report back with a recommended rate structure. Implementation of the selected rate structure is estimated for mid-1994.

Either of the two alternatives if approved as identified, would address the cost for all Solid Waste programs, projected to be approximately $770,000.

City and County Staffing

Responsibility for administering the Solid Waste programs is shared among 4 county staff. Significant waste management duties of these staff are detailed below.

Public Works Director: Reports to the Glenn County Board of Supervisors. Directs the activities and operations of the Public Works Department including Roads, Orland and Willows airports, the transportation commission and special districts. Serves as Chairman of the Solid Waste Task Force.

Deputy County Engineer: Reports to the Public Works Director. Manages and directs the activities of the Engineering, County Surveyor and Solid Waste Divisions. Administers contracts for

activities such as groundwater monitoring, SRRE/HHWE and NDFE development. Oversees disposal site operations and compliance with County, State and Federal regulations.

Disposal Site Supervisor: Reports to the Deputy County Engineer. Supervises daily operations of the County Solid Waste Disposal Site. Responsible for site compliance with permit requirements including daily cover, drainage and random load checking.

Senior Planner: Reports to the Deputy County Engineer. Currently working part-time out of the Planning Department for the Solid Waste Division. Coordinates and implements the Recycling and Solid Waste public education programs. Makes presentations to schools, community groups and city governments. Assists in developing recycling goals, objectives, policies and procedures.

CONCLUSION:

The Unincorporated County of Glenn and the Incorporated Cities of Orland and Willows all qualify, under the conditions of PRC Section 41780 and CCR Section 18775, to petition for a reduction in planning and diversion requirements.

CCR Section 18775 requires the petitioning jurisdiction(s) to provide the following information in its petition:

1. a general description of existing disposal and diversion systems, including documentation of the types and quantities of waste disposed and diverted;

2. identification of the specific reductions being requested;

3. documentation of why attainment of diversion requirements is not feasible;

4. the diversion requirements that are achievable, and why.

Board staff have reviewed the petition from the County of Glenn and the cities of Orland and Willows and found that it complies with these requirements. Based on the information provided in the petition, Board staff believe that the reductions requested by the jurisdictions are justified.

STAFF COMMENTS:

Board staff recommends that the Committee consider the County's and City's petition for a reduction in diversion requirements to 15 percent for each.

ATTACHMENTS

1. Copy of Petition for Reduction
2. Resolution 94-
3. Copy of 14 CCR Section 18775

Prepared by: Steven Hernandez S.H. **Phone (916) 255-2316**

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Legal Review: EB **Date/Time** 1/28/94 10:05a.m.

CALIFORNIA INTEGRATED WASTE MANAGEMENT BOARD

RESOLUTION #94 - 39

FOR THE REDUCTION OF DIVERSION REQUIREMENTS FOR THE UNINCORPORATED COUNTY OF GLENN AND THE INCORPORATED CITIES OF ORLAND AND WILLOWS

Title 14, Division 7, Chapter 9, Section 18775

WHEREAS, Public Resources Code Section 41782 allows reductions in the diversion and planning requirements specified in Public Resources Code Section 41780 if a city or county can demonstrate that achievement of the mandated requirements is not feasible due to geographical size or low population density, and small waste generation rates; and

WHEREAS, Title 14 of the California Code of Regulations, Section 18775 allows for qualifying jurisdictions to petition the Board for reductions in planning and diversion goals mandated by Public Resources Code Section 41780; and

WHEREAS, the Board has received a petition for reductions in the diversion requirements from the Unincorporated County of Glenn and the Incorporated Cities of Orland and Willows; and

WHEREAS, the Unincorporated County of Glenn and the Incorporated Cities of Orland and Willows each individually qualify based on geographic size, population density, and small waste generation rates to petition the Board for specified reductions; and

WHEREAS, the Board has found that the request for reduction in diversion requirements to allow the Unincorporated County of Glenn and the Incorporated Cities of Orland and Willows each to achieve a 15% level of waste diversion by January 1, 1995 is reasonable.

WHEREAS, the Unincorporated County and the Incorporated Cities of Orland and Willows have each complied with Public Resources Code Section 41782, and Title 14 of the California Code of Regulations, Section 18775.

WHEREAS, the Integrated Waste Management Board's Local Assistance and Planning Committee approved the staff recommendation to allow the Unincorporated County of Glenn and the Incorporated Cities of Orland and Willows to each reduce the short term diversion goals from 25% to 15%.

NOW, THEREFORE, BE IT RESOLVED that the Board hereby grants the reduction in diversion requirements to 15% for January 1, 1995.

BE IT FURTHER RESOLVED, that if the City SRRE has not been locally adopted and submitted to the Board by the deadline set in statute; or, if the City SRRE is not approved by the Board pursuant to the provisions of Chapter 7, Part 2, of Division 30 of the Public Resources Code (commencing with section 41800), then the diversion reductions granted above shall be deemed revoked.

CERTIFICATION

The undersigned Executive Director of the California Integrated Waste Management Board does hereby certify that the foregoing is a full, true and correct copy of a resolution duly and regularly adopted by the California Integrated Waste Management Board on February 23, 1994.

Dated:

Ralph E. Chandler
Executive Director

Section 18775. Reduction in Diversion and Planning Requirements.

(a) A city or county may petition the Board, at a public hearing, to reduce the diversion requirements specified in Public Resources Code section 41780, and planning requirements. To petition for a reduction, the city or county shall present verification to the Board which indicates that achievement of the requirements is not feasible due to small geographic size or low population density of the city or county and the small quantity of waste it generates. To qualify to petition for a reduction in the diversion and planning requirements, a city or county must meet the following :

(1) For an incorporated city, a geographic area of less than 3 square miles or a population density of less than 1500 people per square mile and a waste generation rate of less than 100 cubic yards per day or 60 tons per day.

(2) For the unincorporated area of a county, a geographic area of less than 1500 square miles or a population density of less than 10 people per square mile and a waste generation rate of less than 100 cubic yards per day or 60 tons per day.

b) Based on information presented at the hearing, the Board may establish reduced diversion requirements, and alternative, but less comprehensive, planning requirements. A petitioner may identify those specific planning requirements from which it wants to be relieved and provide justification for the reduction. Examples of reduced planning requirements could include, but would not be limited to, reduced requirements for solid waste generation studies, and reduced requirements and consolidation of specific component requirements. These reduced planning requirements, if granted, must ensure compliance with Public Resources Code section 41782.

(c) Cities and counties requesting a reduction in the diversion and planning requirements must include the following information in the reduction petition:

(1) A general description of the existing disposal and diversion systems, including documentation of the types and quantities of waste disposed and diverted. Documentation sources may include, but are not limited to, the following:

(A) Solid Waste Generation or Characterization Studies;

(B) Diversion data from public and private recycling operations;

(C) Current year waste loading information from permitted solid waste facilities used by the jurisdiction;

(2) Identification of the specific reductions being requested (i.e. diversion or planning requirements or both);

(3) Documentation of why attainment of mandated diversion and planning requirements is not feasible. Examples of documentation could include, but are not limited to:

(A) Evidence from the documentation sources specified in paragraph (c)(1) of this section;

(B) Verification of existing solid waste budget revenues and expenses from the duly authorized designated representative of the city or county;

(4) The planning or diversion requirements that the city or county feels are achievable, and why.

(d) Cities and counties which petition the Board and receive a reduction in the diversion and planning requirements pursuant to this section, shall fully address the following issues in an annual report submitted to the Board within 90 days of the anniversary date the reduction was originally granted, and each year thereafter until the Board-mandated diversion levels are met:

(1) the city or county's current activities to establish and maintain source reduction and recycling programs;

(2) changes in demographics in the city or county;

(3) changes in types and amounts of waste generated in the city or county;

(4) changes in funding sources for implementing the Elements or Plan;

(5) changes in markets for the city or county's recyclables.

(e) The Board may, upon review of the annual report, find that a revision or revocation of the reduction is necessary. The Board shall present any such findings at a public hearing.

(f) If a regional agency is named in a regional agreement as the responsible entity for the achievement of the diversion requirements specified in PRC section 41780, neither the regional agency nor any member of the regional agency will be eligible for a reduction in the diversion requirements of PRC section 41780.

NOTE: Authority cited: Section 40502, Public Resources Code. Reference: Section 41782, 41783 through 41786 and 41802, 40973 Public Resources Code.

Petition for Reduced Diversion Requirements

Prepared For The

COUNTY of GLENN

and the Cities of

ORLAND and WILLOWS

California

REVISED DRAFT

Submitted January, 1994

by

SOLUTION RESOURCES INCORPORATED

205 West Main Street, Suite D Grass Valley, CA 95945

(916) 477-6677 FAX 477-6680

Petition for Reduced Diversion & Planning Requirements for the County of Glenn, California

REVISED DRAFT

January, 1993

Produced for the County of Glenn by Solution Resources, Inc.

Produced and printed on recycled paper.

TABLE OF CONTENTS

I. INTRODUCTION

Glenn County and the cities of Willows and Orland have completed and adopted their Source Reduction and Recycling Element and Household Hazardous Waste Element. These elements were prepared jointly and one planning document was submitted with each entity reporting separately the existing conditions, diversion and disposal data. As scrap metal is not able to be counted toward diversion, Glenn County's diversion numbers are low. Public Works staff turnover in the middle of the AB 939 planning process has also impacted program implementation, as has the need to anticipate Subtitle D expenditures at the solid waste disposal site. Glenn County and cities have taken a deliberate and systematic approach to solid waste management, completing the planning process, pursuing and receiving designation as a Market Development Zone. Most recently a funding analysis was commissioned to provide guidance as to the most equitable and financially sound methods of funding their solid waste management system.

The County of Glenn and cities of Willows and Orland are petitioning individually in the context of one combined petition as the most expeditious manner in which to proceed. Each one qualifies according to petition requirements; therefore, Glenn County and the cities of Willows and Orland petition the California Integrated Waste Management Board to approve reduced diversion requirements in the short-term planning period. The County and cities believe that a reduction in short-term diversion requirements will allow them to continue to progress toward the diversion goals committing the level of resources realistic given their circumstances, and to position themselves favorably to achieve the medium-term planning period 50% diversion goal.

II. ELIGIBILITY TO PETITION

Section 18775 of CCR Title 14 states that to qualify to petition for a reduction in diversion and planning requirements, a county or a city must meet the following requirements:

> "For an incorporated city, a geographic area of less than 3 square miles or a population density of less than 1500 people per square mile and a waste generation rate of less that 100 cubic yards per day (or 60 tons per day)..."

> "For the unincorporated area of a county, a geographic area of less than 1500 square miles or a population density of less than 10 people per square mile and a waste generation rate of less than 100 cubic yards per day (or 60 tons per day)..."

	Geographic Area	Population	Population Density	Waste Gen.
Uninc. Glenn	1,314 sq.mi.	14,246	11 persons/sq. mile	22 tons/day
City of Willows	1.25 sq. mi.	6,167	4,934 persons/sq. mile	24 tons/day
City of Orland	2.0 sq. mi.	5,394	2,697 persons/sq. mile	20 tons/day

1992 Dept. of Finance figures

III. PETITION REQUEST SUMMARY

Unincorporated Glenn County and the cities of Willows and Orland are eligible to petition the Board for reduced requirements. It is the intention of this petition to request reduced diversion requirements based on low generation rates as well as low diversion rates due to the large quantities of scrap metals. Due to the requirements for counting excluded material types in base year diversion, Glenn County and Cities have had to significantly reduce their diversion levels.

The petition will be supported by the following information and recommendations:

- Relevant geographic and physical characteristics
- Pertinent demographic information
- Description of the existing disposal and diversion systems, including volumes and funding resources
- Discussion of obstacles to meeting current mandates
- Discussion of strategies to meet achievable planning and diversion requirements
- Verification that unincorporated Glenn County and the cities of Willows and Orland meet petition criteria

IV. EXISTING CONDITIONS

Geographic Setting and Physical Characteristics

The County of Glenn is located in the Sacramento Valley of California approximately 80 miles northeast of the City of Sacramento. The County is predominately agricultural with a minimal mix of industrial developments in the area. The western half of the County is largely foothills and mountains with grain growing and grazing lands in the foothill areas and little population because of lack of water supply. The mountain region is primarily timber land, some part of the Mendocino Forest and some commercially-held timber lands.

There are two incorporated cities, Willows and Orland, in the County. The City of Willows is located along Interstate 5 at State Route 32 in the southeastern quadrant of the County, and is the largest population center in Glenn County as well as being the County seat and a regional center for trade and services. Willows' economic base is primarily agricultural, though there is a growing service sector associated with its proximity to the interstate highway.

The City of Orland is in the northwest quadrant of the County along Interstate 5 at State Route 32 less than 5 miles from the Tehama County line to the north. Unincorporated communities in the County area include Artois, Butte City, Hamilton City, Ordbend, Cordora, Glenn, Elk Creek and Afton and Bayliss.

Population

The population of Glenn County and the cities of Orland and Willows, according to 1992 Department of Finance numbers, are as shown following.

Unincorporated County	**14,246**
City of Orland	**5,394**
City of Willows	**6,167**
Total Glenn County	**25,807**

The unincorporated County is currently growing at a rate of approximately 1.2% annually according to the 1989 Glenn County General Plan. The city of Orland reports a 2.0% growth rate, while Willows is less at approximately 1.0% computed on actual growth between 1984 and 1991. The number of retired persons residing in the area is expected to increase in the future due to the relatively low cost of housing and general cost of living as compared to other California counties.

Economy

Agriculture is the predominant industry in Glenn County, with 58.2% of the County's land area in farms. Average per capita income in 1988 was $14,983. The table below shows total households, numbers and types of units and persons per household.

Total Households	9,774
Single Family Units	6,803
Multi-Family Units	1,678
Mobile Homes	1,293
Persons/Household	2.7

Glenn County is centrally located with Interstate-5 intersecting vertically providing good access from surrounding counties. The area has potential as a light industrial/manufacturing area.

Glenn County applied for and received designation as a Market Development Zone as of June 1992. One of the projects under consideration is a composting facility because of the large amounts of green waste and agricultural waste present in the County's wastestream and the availability of feedstock from neighboring jurisdictions. The County will continue to work with existing manufacturers, pursue regional cooperation and advertise its designation as a zone in developing its plans.

V. SOLID WASTE GENERATION AND MANAGEMENT

Waste Disposal Facilities

The Glenn County Solid Waste Disposal Site is located on approximately 192 acres at the western terminous of County Road 33, about five (5) miles west of the community of Artois. The site is a Class III landfill that utilizes an area method of landfill disposal. Standard volume estimates based on cubic yards were applied for self-haul residential vehicles. Franchise haulers have vehicles with estimated load capacities of twenty (20), thirty (30), and forty (40) cubic yards. A conversion rate of 4:1 (4 cubic yards per ton) is calculated on all loads. Disposed tons per day per Department of Public Works figures have averaged 58 tons/day in 91-92 and 59 tons/day in 92-93. Disposal facility capacity as reported in the SRRE was 1,742,000 cubic yards or 32 years.

Collection Services

Refuse collection is not mandatory anywhere in the unincorporated County or the two incorporated cities. Solid waste collection and transfer to the disposal site of municipal solid waste (MSW) is either self-haul residential, self-haul commercial or commercial collection service. Two commercial haulers service the County and cities: Glenn County Disposal serving the cities of Orland and Willows and the

majority of the eastern County area; Stoney Creek Garbage serves the less populated western area of the County.

In 1992-93, contribution to the disposed wastestream by hauler segment is distributed as follows: franchise haulers - 56%; business-industrial accounts - 16%; self-haul residential (cars, pick-ups, trucks) - 28%.

Table 1.0
Glenn County Tons Disposed
1990

JURISDICTION	% of TOTAL DISPOSED	ANNUAL TONS (Approx)
JPA Aggregate	100%	22,658
County Unincorporated Area	34%	7,613
City of Orland	29%	6,571
City of Willows	37%	8,474

Table 2.0
Waste Generation (w/o scrap metals)
1990

Jurisdiction	Total Generation	Population	Tons/Day	Lbs/Person/Day
Glenn Aggregate	24,998 tons	25,807	.96	5.1
Uninc. County	8,112.7	14,246	.6	3.1
City of Orland	7,939.5	5,394	1.4	7.5
City of Willows	8,945.9	6,167	1.5	7.9

System Finance

Solid waste management funds are currently generated in Glenn County by an annual household parcel charge, through gate receipts at the Glenn County Landfill, and an annual commercial/industrial solid waste fee. These are the primary source of operating funds for the County Department of Public Works which manages the County's solid waste. Current parcel rates are $35.00 to both residential and commercial parcels.

- **Annual Household/Residential Parcel Fee (Household Charge)**
  Assessed via the property tax bill to over 9,300 single and multi-family units (countywide - $35/year)
- **Annual Commercial/Industrial Solid Waste Fee (Commercial Charge)**
  Public Works bills commercial and industrial businesses the $35.00 annual solid waste fee.
- **Landfill Disposal/Gate Fees (Commercial Self-Haul Accounts - Industrial Dumping)**
  Charged to non-residential loads entering the landfill on a volume basis $1.75/cubic yard or vehicle type or size.
- **Gate Fees** - Other Self-Haul charged at the landfill.

Per Resolution No. 89-116, the gate fee schedule for the Glenn County Landfill is as follows.

Table 3.0
Current Schedule of Gate Fees

Vehicle/Container Size	Amount
• Cars, station wagons, pickups, panel trucks, two-wheel trailers (beds smaller than 6 X 8 feet)	No Charge
• Vehicles with beds larger than 6 X 8 feet and not in any other category.	$ 3.50
• Contract collectors and franchise operators	$ 1.00
• One and one-half ton trucks or larger	$ 1.75
One and one-half ton trucks or larger	$ 4.00
Semi-trailers	$ 5.00
Ten-wheel trucks w/demolition & tree trunks	$ 12.50
• Tires up to 20 inches	$ 0.75 ea.
Tires 20 inches to 24 inches	$ 1.50 ea.
Tires above 24 inches	$ 7.50 ea.
• Industrial Rates (3 cubic yds/week or more)	$ 1.75 per cu.yd.

From 1989 through 1992, Glenn County's solid waste funding requirements have been relatively stable, requiring little or no change to existing rate structures or fees. The annual $35.00 residential parcel fee has been the most consistent funding source, contributing over 73% to total funding or approximately $300,000 per year. The annual solid waste commercial fee has contributed, on average, less than 3% per year in revenues. Gate fee revenue from business and industrial accounts have contributed 16%, with the balance of gate fees contributing only 2%. Other income sources include miscellaneous revenues from interest on fund balances/reserve accounts and periodic grant funding, transfer accounts, and rebates. Table 4.0 shows solid waste expenditures over the past four years. Table 5.0 illustrates the 1993-94 solid waste budget. The projected 1993/94 budget shows an increase in expenditures to over $750,000, due primarily to regulatory-driven facilities, staffing and solid waste programs (i.e. waste diversion/recycling,etc.)

Table 4.0
Solid Waste Expenditures 1989-93

1989/90	1990/91	1991/92	1992/93	1993/94
$375,281	$494,465	$462,498	$451,981	$750,000+

Table 5.0
1993-94 Projected Solid Waste Revenues

Revenue Source	Projected Revenues		% of Total Revenue
Residential Parcel Fees	$312,550.00		73%
Commercial Annual Fee	$13,440.00		3%
Subtotal		$325,990.00	
Gate Fees(Other Self-Haul)	$10,000.00		2%
Bus/Industrial Gate Fees	$70,000.00		16%
Subtotal		$80,000.00	
Interest Income	$25,000.00		6%
TOTAL		**$430,990.00**	**100%**

Table 6.0
1993-94 Projected Solid Waste Expenditures

Expenditure Category	Projected Expenditures	% of Total Expenditures
Administration & Operations	$170,319	22%
Capital Expenses/Facilities	$294,500	38%
Regulatory Compliance/Fees*	$241,600	31%
Waste Diversion Programs/Plans	$64,000	8%
(see Table 7.0 for list of programs, activities)		
TOTAL	**$770,419**	**100%**

**Includes additional $13,000 and $4,000 in State fees for the Easton Account ($0.56/ton) and Waste Discharge Requirements respectively.)*

Table 7.0
1993-94 Projected Expenditures
for AB 939 Diversion Programs

Expenditure Category	Projected Expenditures
• Source Reduction Programs	$10,000.00
• Recycling Promotion	$25,000.00
• Used Oil Recycling Storage Tank	$4,000.00
• HHW Collection Program	$10,000.00
• RMDZ GEDCo Funding Support	$15,000.00
Total	**$64,000.00**

Funding for Future Solid Waste Management

Consistent with its systematic approach, Glenn County and cities have recently commissioned a funding analysis to evaluate current fee schedules and project potential mechanisms for funding the solid waste budget. This evaluation has shown that the existing fee structure as a funding system has gaps that threaten the County and cities' abilities to adequately fund upcoming program requirements and Subtitle D-related expenses. Tables 8.0a and 8.0b illustrate two alternate funding scenarios Glenn County and Cities presented in the funding study which show how the current system could be re-structured to provide adequate funding for projected AB 939 implementation costs as well as Subtitle D compliance costs.

Table 8.0a
Alternate Funding Scenarios
(Increased Fees/No Import)

Funding Source	Rate	Est. Tons/ # of Entities	Projected Annual Revenue
Residential Fee	$50.00/yr.	9,300 units	$465,000
Commercial Fee	$50.00/yr.	750 Businesses	$37,500
Gate Fees	$17.50/Ton	20,000 Tons	$350,000
Total Revenue			**$852,250**

Table 8.0b
Alternate Funding Scenarios
(Existing Fees/Import)

Funding Source	Rate	Est. Tons/ # of Entities	Projected Annual Revenue
Residential Fee	$35.00/yr.	9,300 units	$325,500
Commercial Fee	$35.00/yr.	750 Businesses	$26,250
Gate Fees - Glenn	$17.50/Ton	20,000 Tons	$350,000
Gate Fees - Import	$25.00/Ton	18,000 Tons	$450,000
(assumes 50 TPD).			
Total Revenue			**$1,151,750**

Rate increases and solid waste system changes can be difficult to get passed by City Councils and Boards of Supervisors. The County has had initial meetings with Willows and Orland city managers regarding the funding study results and the need to take action. The Department of Public Works delivered the funding study to the County Board of Supervisors in late 1993. The Board accepted the findings and directed the department to come back with the required rate structures for implementation by mid-1994. The Department's incremental approach to solid waste funding is part of its efforts to ensure a better planning and decision-making process.

Diversion Programs/Facilities

- **Private Diversion Activities**

In Glenn County and Cities' draft Source Reduction and Recycling Element, scrap metals collected and processed by private scrap metal dealers from the heavy equipment and machines used by the agricultural industry were counted as contributing a large segment of the diverted wastestream . This material accounted for 60% of the diverted wastestream within the County and the cities of Orland and Willows.

Subsequent legislation and regulations required further research to determine whether or not these materials, as they have historically been managed in Glenn County, can be counted as diversion. The three criteria require that the activity or program had to have been carried out as the result of an action of the County or cities; that the material had been disposed prior to 1990 at least in the amounts claimed to have been diverted; and that the County can demonstrate that it is implementing and will continue to implement a program to divert the material. **Research by the County indicates that these activities were not carried out by an action of the County; therefore scrap metal diversion credit cannot be taken in the base year.**

Glenn County Disposal operates a single AB 2020 California redemption container buyback center in Willows. Another certified redemption center operated by Western Recyclers is located on County Road 200 in the unincorporated County. North Valley Services, a nonprofit organization in Orland, provides drop-off/buyback facilities for CRV aluminum, glass and plastic, and drop-off for high grade office/computer paper. In base year 1990, they were also collected corrugated cardboard, newsprint and other recyclable glass.

- **County Diversion Programs**

A recycling coordinator has recently been transferred from the Planning Department to manage the programs planned for 93-94. Table 9.0 details the amounts and materials by material type diverted in 1990 as reported in the Source Reduction and Recycling Element for each jurisdiction, less scrap metal diversion. Table 10.0 illustrates the percent existing diversion activity in each of the cities and the Unincorporated County, as it relates to generation in the base year.

Table 9.0
Solid Waste Diversion by Material Type

All Quantities in Tons Per Year

Material Type	Uninc. Glenn	Orland	Willows
Corrugated cardboard	16.0	147.0	186.
Mixed paper	0.0	0.0	0.0
Newspaper	.6	75.6	.6
High Grade	0.0	50.0	0.0
Other	0.0	0.0	0.0
TOTAL PAPER	**16.6**	**272.6**	**186.6**
HDPE	0.0	0.0	0.0
PET	2.2	4.2	.3
Film Plastics	0.0	0.0	0.0
Other Plastics	0.0	6.6	.1
TOTAL PLASTICS	**2.2**	**10.8**	**.4**
Refillable Glass	0.0	0.0	0.0
Redemption Glass	82.1	130.8	11.4
Other Recyclable	5.8	3.4	4.9
Non-Recyclable	0.0	0.0	0.0
TOTAL GLASS	**87.8**	**134.2**	**16.3**
Aluminum Cans	139.6	96.4	55.6
Bi-Metal	0.0	0.0	0.0
Ferrous/Tin	0.0	0.0	0.0
Non-ferrous	0.0	0.0	0.0
White Goods	0.0	0.0	0.0
TOTAL METALS	**139.6**	**96.4**	**55.6**
YARD WASTE	**136.6**	**47.0**	**51.8**
Food Waste	18.8	181.2	0.0
Tires/Rubber	0.0	74.4	49.6
Wood Wastes	90.0	0.0	0.0
Ag Crop Residue	0.0	0.0	0.0
Manure	0.0	0.0	0.0
Textiles/Leather	8.1	6.8	12.2
TOTAL ORGANICS	**116.9**	**262.4**	**61.8**
Inerts	0.0	0.0	0.0
Household Haz Waste	0.0	0.0	0.0
Infectious Waste	0.0	0.0	0.0
TOTAL OTHER	**0.0**	**0.0**	**0.0**
Ash	0.0	0.0	0.0
Sludges	0.0	0.0	0.0
Asbestos	0.0	0.0	0.0
Auto Shred Parts	0.0	0.0	0.0
Auto Bodies	0.0	0.0	0.0
Other Speical (Bulky)	0.0	0.0	0.0
TOTAL SPECIAL	**0.0**	**0.0**	**0.0**
TOTAL DIVERSION	**499.6**	**823.5**	**471.8**

Table 10.0
Total Estimated Diversion
1990

Jurisdiction	MSW Disposed	Waste Diverted	Total Generation	% Diversion
County Unincorp.	8,673	499.6	9,172.7	5.3%
City of Orland	6,571	823.5	7,394.8	11.0%
City of Willows	8,474	471.8	8,945.9	5.2%

New Diversion Programs

Programs currently operating or in development for the 1993-94 budget year include the following: source reduction/recycling education and promotion in the schools and in the community; establishing roadside (curbside) collection; drop-off recycling at the landfill; a commercial program to collect glass and corrugated cardboard; a Household Hazardous Waste collection event; funding support through GEDCo to promote the Recycling Market Development Zone; purchase of used oil recycling tank.

Programs implemented by the new recycling coordinator are focussed on basic waste reduction education for residents and for businesses. Implementation began in the fall of 1993 with an education program in the schools planned to reach every grade level in both cities. Videos and in-person presentations as well as hand-out materials are being used in the program to increase awareness of the need to reduce and divert waste materials. In addition, information on backyard composting and what materials can be diverted in their communities at this time are included. Materials from the CIWMB media kit have been reviewed and will be incorporated into the communications plan.

A fifth grade class managed the recycling of materials at a recent car rally. An information and education booth was used at the Glenn County Fair and fall Harvest Festival. The recycling coordinator is working with the Glenn County Economic Development Corporation on a campaign to educate and enlist businesses to develop procurement policies and make a commitment to buy recycled.

The County and cities are working with the franchise hauler to implement the residential roadside recycling program, to institute drop-off recycling at the landfill, and establish the commercial glass and cardboard collection program. These programs are all to be implemented on a Countywide basis. Staff has been carrying out portions of the education programs through presentations in the schools and to community groups. Program funding will come from a combination of increased annual fees (parcel), landfill gate fees and refuse service surcharges.

Table 11.0
Programs to Achieve
Short-Term Uniform Diversion Level of 15%

PROGRAMS	Uninc. County	City of Orland	City of Willows
	% / TPY	% / TPY	% / TPY
Existing Diversion	499.6 tons	823.5 tons	471.8 tons
w/o Scrap Metal	5.3%	11%	5.2%
Source Reduction			
• Info/Ed. - Residential	1.2%	.8%	1.3%
• Info/Ed. - Comml	1.0%	.8%	1.5%
Recycling*			
• Roadside Collection	2.0%	2.0%	3.0%
• Drop-Off Recyc-Landfill	2.5%	0.0%	0.0%
• Commercial Glass, OCC	1.8%	2.0%	2.5%
Education/Public Info			
•Schools Program	1.2%	.5%	1.5%
Total	15%	17.1%	15%

Table 12.0
Program Implementation Schedule

PROGRAMS	3rd-4th QTR 1993	1st-2nd Qtr 1994	3rd Qtr 1994
Source Reduction			
• Info/Ed. - Residential (County & Cities)	X		
• Info/Ed. - Comml (County & Cities)	X	X	
Recycling			
• Roadside Collection (w/Private Hauler)			X
• Drop-Off Recycling at Landfill (County)			X
• Commercial Glass, OCC Collection (Hlr)			X
Education/Public Info			
•Schools Program (County & Cities)	X		

Reasons for Programs Selected

The above programs selected to be implemented by Glenn County and Cities are among those described in the final draft of the Source Reduction and Recycling Element. They have been chosen for implementation at this time because they are programs that can be implemented on a countywide basis and with County/City program compatibility.

VI. OTHER CONSIDERATIONS

Glenn County and the cities of Willows and Orland have chosen to work together under a joint powers agreement to develop and fund AB 939 planning and implementation. They are interested in the development of additional regional programs, as evidenced by the pursuit of designation as a Recycling Market Development Zone. The County is moving forward with plans to develop local industry, and has conducted initial conversations with neighboring cities and counties regarding the feasibility of various manufacturing processes and available feedstock. In addition, the County and cities are considering the development of a regional landfill and other regional projects pertaining to solid waste. These projects and processes are long term in nature and are under consideration because they will maximize the County's land resources and take advantage of its central accessible location. All of these projects listed below are still in very preliminary phases and, because of extensive facilities development and permitting processes, would not be operational until the medium-term planning period (1995 or 1996).

- **Regional Landfill:** Exploratory meetings have taken place between Glenn and bordering counties as to their willingness to develop a regional landfill.

- **Recycling Market Development Zone:** The designation of Glenn County as an RMDZ holds the potential for regional projects involving feedstock imported from other counties.

- **Regional HHW Collection/Transfer Facility:** A proposed project is in the preliminary stages for locating a facility in Glenn that could handle household hazardous waste, agricultural hazardous wastes, and small quantity commercial generators.

Regional approaches on a variety of issues such as Glenn County is pursuing provide a practical means for rural areas to realize economies and to actually implement waste reduction program plans. It is important in the case of Glenn County and the cities of Willows and Orland that these initiatives be supported and encouraged. Rural areas throughout California experience special solid waste challenges. Low population densities, low generation rates, low disposal fees that are a disincentive to diversion, as well as inadequate support for solid waste management systems, many "dumps" - now landfills that require expensive closure, postclosure and monitoring procedures - these are the unique circumstances of most California rural counties. They need help to meet AB 939 diversion goals. The petition process and potential diversion reductions or postponing of diversion goals is necessary for jurisdictions like Glenn County and the cities of Orland and Willows so that they can deal with solid waste realities without being fiscally overwhelmed by them.

VII. ACHIEVABLE DIVERSION REQUIREMENTS

This section will summarize the obstacles to achieving the AB 939 diversion requirements and propose alternative diversion and planning requirements as well as potential programs to meet the reduced mandates.

Obstacles

The requirements of AB 2494 have reduced Glenn County and cities' existing diversion rates by disqualifying scrap metals diversion to eleven percent (11%) or under. Given the current waste management scenario in Glenn County, it would be impossible for the County and Cities to meet a 25% diversion level by 1995. Solid waste expenditures have nearly doubled since the 1989-90 budget year (see Table 4.0 on Page 5), including the implementation programs planned for 1993-94. A major portion of the increase is landfill expenditures due to Subtitle D. The relatively low population requires that an unrealistically high per person diversion rate (for these jurisdictions) be accomplished. The County feels that given the time to pursue longer term plans and processes now pending, it will be able to reach the medium-term diversion goal of 50%; and therefore does not anticipate seeking additional reductions.

Reduced Diversion Requirements Requested

The following table illustrates the SRRE-reported diversion percents (with scrap metal), what the diversion rate would be without the metal, and the reduced diversion requirements requested under this petition.

	SRRE Div.Level	W/O Scrap Metal	Requested Div. Level
Unincorporated Glenn County	13%	5.3%	15%
City of Willows	12%	5.2%	15%
City of Orland	17%	11.0%	15%

Reduced Planning Requirements

Glenn County and the cities of Orland and Willows are not seeking reduced planning requirements as their SRRE and HHWE have been completed in Final Draft form.

VII. SUMMARY

Unincorporated Glenn County and the cities of Orland and Willows each clearly meet the criteria established for Reduced Diversion Requirements. They are petitioning in a single petition document to expedite the petition process as they prepared and submitted SRRE and HHWE as individual jurisdictions in a single planning document.

Glenn County and cities have moved forward to meet AB 939 planning requirements. They have sought and been designated a Recycling Market Development Zone and continue to support that process. They are investigating other regional approaches to solid waste projects that will help them efficiently and cost-effectively manage their solid waste system. They have proceeded with a funding analysis to assist in decision-making and planning for impending system cost increases and will be implementing those decisions in the near future. Glenn County and the cities of Orland and Willows have taken an incremental, systematic approach to their solid waste system needs.

Glenn County and the Cities of Orland and Willows request the California Integrated Waste Management Board's thoughtful consideration of this petition for diversion requirements reduced to the following levels:

- **Uninc. Glenn County** 15%
- **City of Willows** 15%
- **City of Orland** 15%

The jurisdictions feel a reduced short-term diversion requirement, acknowledging their rural circumstances (i.e. low generation rates and small size), will enable them to plan more carefully and to successfully achieve the 50% medium-term diversion requirement.

SOLUTION RESOURCES INCORPORATED

FAX TRANSMISSION

1-255-2221

 # OF PAGES INCLUDING COVER: 2 **DATE:** 1-21-94

TO: Steven Hernandez **COMPANY:** CIWMB
Local Assistance / GRCA

FROM: Donna Rail

RE: Glenn Pet Addendum

MESSAGE: I added the table (adjusted) to page 3 of the addendum. Hope that works for you.

IF YOU DID NOT RECEIVE ANY PORTION OF THIS FAX, PLEASE CALL OR FAX US AT THE NUMBERS LISTED BELOW.

205 West Main Street, Suite D Grass Valley, CA 95945 (916) 477-6677 FAX 477-6680

- **Recycling Market Development Zone**

  Glenn County, through its local Economic Development Corporation and Public Works Department, decided to pursue the establishment of a Recycling Market Development Zone in 1991. Following the preparation of a thorough feasibility study and zone application, the State CIWMB granted RMDZ status to Glenn County.

  The County's objectives for the RMDZ focussed on creating a framework for both integrated waste management and local economic development. Glenn County has one of the highest unemployment rates in the state and is very interested in the development of local recycling related industries as well as associated integrated waste management facilities (i.e., composting facility, landfill, materials recovery facility, etc.) that will create the needed secondary material feedstocks for future recycling businesses and industries under the RMDZ.

  A successful petition for reduced short-term diversion requirements will allow the County to focus more of its resources and energies on promoting the development of the facilities and industries under the RMDZ, and help ensure the County actually meets both the short-term and the medium-term diversion requirements.

Following is a table which illustrates the way in which the programs selected by the County and cities will combine to achieve the reduced diversion of 15%.

Programs to Achieve
Short-Term Uniform Diversion Level of 15%

PROGRAMS	Uninc. County	City of Orland	City of Willows
	%/TPY	%/TPY	%/TPY
Existing Diversion	499.6 tons	823.5 tons	471.8 tons
w/o Scrap Metal	5.3%	11%	5.2%
Source Reduction			
• Info/Ed. - Residential (includes backyard composting)	1.2%	.6%	1.3%
• Info/Ed. - Comml	.8%	.8%	1.5%
• Govt Procurement Policies	.5%	.3%	.3%
Recycling*			
• Roadside Collection	2.0%	2.0%	2.6%
• Drop-Off Recyc-Landfill	2.5%	0.0%	0.0%
• Commercial Glass, OCC	1.6%	1.8%	2.6%
Education/Public Info			
•Schools Program	1.2%	.5%	1.5%
Total	15.1%	17.2%	15%